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Interim Report

Survey and Analysis of Environmental
Requirements for Shipboard
Electronic Equipment Applications

Appendix B

Volume III

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Washington, D.C. 20362-5101

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VMEbus PRODUCT RECORD

VENDOR: ACROMAG
 PRODUCT: INTELLIGENT BASE CARD
 PART NO: AVME 9100
 TYPE: INPUT/OUTPUT
 CATEGORY: COTS

FEATURES:

68000 CPU
 Dual port RAM
 14-bit resolution A/D
 Up to 256 channels, auto zero
 400 us per channel throughput time
 Serial port
 Limit checking, thermocouple, and RTD linearization
 and scaling
 Scan and single channel commands
 PASS/FAIL/HAULT LEDs

MIL-SPECS AND MIL-STDS:



ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
 NON-OPERATING TEMPERATURE:
 HUMIDITY:
 VIBRATION - SINE:
 VIBRATION - RANDOM:
 SHOCK:
 ALTITUDE:

COMMENTS:

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VMEbus PRODUCT RECORD

VENDOR: ACROMAG
PRODUCT: INTELLIGENT BASE CARD
PART NO: AVME 9110
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

68000 CPU
Dual port RAM
16 differential or 32 single ended inputs, +/-10V
14-bit resolution A/D
400 us per channel throughput time
Serial port
limit checking, thermocouple, and RTD linearization
and scaling
Scan and single channel commands
PASS/FAIL/HAUT LEDs

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ACROMAG
PRODUCT: VOLTAGE OUTPUT
PART NO: AVME 9210
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

8 channels with 12-bit resolution
+/- 10V and 0-10V

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ACROMAG
PRODUCT: CURRENT OUTPUT
PART NO: AVME 9215
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

8 channels with 12-bit resolution
4-20 mA

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ACROMAG
PRODUCT: ANALOG INPUT
PART NO: AVME 9320
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

16 differential or 32 single ended channels
12-bit resolution
Throughput of 67,000 channels per second
Ranges of +/-10V and 0-10V
Sequential or per channel scans
Three trigger sources
Program gains of 1, 2, 4, and 8

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ACROMAG
PRODUCT: ANALOG INPUT/OUTPUT
PART NO: AVME 9321
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- 16 differential or 32 single ended input channels
- Input ranges of +/-10V or 0-10V
- Two output channels
- 12-bit resolution
- Five output ranges to +/-10V
- A/D throughput of 67,000 channels per second
- D/A conversions of 6.4 us
- Sequential or per channel scans
- Three trigger sources
- Program gains of 1, 2, 4, and 8

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ACROMAG
PRODUCT: DIGITAL OUTPUT
PART NO: AVME 9410
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

64 output points
0-30V sink, 100 mA
Configured as 8 8-bit ports
TTL and CMOS compatible
Byte or word transfers

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ACROMAG
PRODUCT: DIGITAL INPUT/OUTPUT
PART NO: AVME 9470
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- 80 programmable I/O points
- 0-5V sink, 48 mA
- Read state of points configured as outputs
- TTL/CMOS compatible
- 12 16-bit counter/timers
- GPIO (IEEE-488) and parallel printer interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ACROMAG
PRODUCT: DIGITAL INPUT/OUTPUT
PART NO: AVME 9480
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- 64 programmable I/O points
- 0-30V
- Handshake 8-bit port
- Open collector outputs w/optional pull-up resistors
- Built-in diodes for relay coils
- Adjustable input threshold

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: AEROFLEX
PRODUCT: 1553 CHIP SET
PART NO:
TYPE: CHIP SET
CATEGORY: MIL

FEATURES:

ARX 3400 Series Current Source Transceiver
ARX 3400 Series Voltage Source Transceiver
ARX 2454 & 2458 Data Bus Interface Processor
ARX 2452 & 2462 Remote Terminal Unit
ARX 2427. 2447. & 24576 Universal Bus Interface
ARX 2443 & 2453 Single Supply Transceiver
ARX 2441 Message Processor
ARX 2439 Dual Bit Processor
ARX 1555 Data Terminal Bit Processor
ARX 8553 Transceiver

MIL-SPECS AND MIL-STDS:

MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-STD-1553, Command Response Multiplex Data Bus

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -55C to +125C
NON-OPERATING TEMPERATURE: -55C to +150C
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: AEROFLEX
PRODUCT: STATIC MEMORY BOARD
PART NO: ARX V21
TYPE: MEMORY
CATEGORY: MIL

FEATURES:

16 32-pin JEDEC sockets
for EPROM, ROM, EEPROM, SRAM
Up to 2 MB of EPROM or SRAM or 512 KByte EPROM or
256 KByte SRAM
VSB interface
A14/32:D08/16/32 VMEbus interface

MIL-SPECS AND MIL-STDS:

MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-62C to +150C
HUMIDITY:	0 to 100% condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	10g from 5 to 2000 Hz
SHOCK:	15 g for 11 ms
ALTITUDE:	70 000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: AEROFLEX
PRODUCT: DYNAMIC MEMORY BOARD
PART NO: ARX V22
TYPE: MEMORY
CATEGORY: MIL

FEATURES:

Up to 4 MB DRAM
A24/32:D08/16/32 VME slave
VME/VSB bus interface
150 nsec access time

MIL-SPECS AND MIL-STDS:

MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-62C to +150C
HUMIDITY:	0 to 100% condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	10g from 5 to 2000 Hz
SHOCK:	15 g for 11 ms
ALTITUDE:	70 000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: AEROFLEX
PRODUCT: SINGLE BOARD COMPUTER
PART NO: ARX V20
TYPE: SINGLE BOARD COMPUTER
CATEGORY: MIL

FEATURES:

68020 at 16.67 or 20 MHz
Up to 2 MB dual-ported memory
128 bytes non-volatile RAM
Optional 68881 or 68882 FPP
1 RS232/RS422 serial port
4 8-bit counters/timers
VME/VSB bus interface
HEURIKON V2F compatible

MIL-SPECS AND MIL-STDS:

MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-62C to +150C
HUMIDITY:	0 to 100% condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	10g from 5 to 2000 Hz
SHOCK:	15g for 11 ms
ALTITUDE:	70 000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: AEROFLEX
PRODUCT: CHASSIS
PART NO: ARX 2000
TYPE: CHASSIS
CATEGORY: RUG

FEATURES:

Full ATR
14 VME Slots
Dual power supply

MIL-SPECS AND MIL-STDs:

MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +71C
NON-OPERATING TEMPERATURE:	-62C to +105C
HUMIDITY:	0 to 100% Condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	10g from 5 to 2000Hz
SHOCK:	15g for 11ms
ALTITUDE:	70000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: AEROFLEX
PRODUCT: CHASSIS
PART NO: ARX 2010
TYPE: CHASSIS
CATEGORY: RUG

FEATURES:

Full ATR, Short
6 VME slots
Single Power Supply

MIL-SPECS AND MIL-STDs:

MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +71C
NON-OPERATING TEMPERATURE:	-62C to +105C
HUMIDITY:	0 to 100% condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	10g from 5 to 2000Hz
SHOCK:	15g for 11ms
ALTITUDE:	70000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: AEROFLEX
PRODUCT: 1553B INTELLIGENT I/O
PART NO: ARX V1553
TYPE: LOCAL AREA NETWORK
CATEGORY: RUG

FEATURES:

Dual Redundant MIL-STD-1553B channel
68000 CPU and Memory
BC, RT, and BM Modes

MIL-SPECS AND MIL-STDS:

MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-62C to +150C
HUMIDITY:	0 to 100% Condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	10g from 5 to 2000Hz
SHOCK:	15g for 11ms
ALTITUDE:	70000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: AEROFLEX
PRODUCT: SUN 3/50 PROCESSOR
PART NO: ARX V3/50
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

Sun 3/50 on 3 VME boards
68020 (15MHz) CPU
68881 FPP
Sun MMU
4 MByte DRAM, expandable to 16MByte via VSBbus
Redundant MIL-STD-1553B bus interface
2 RS-232C serial channels
Bubble memory interface
A24:D32 VMEbus interface

MIL-SPECS AND MIL-STDs:

MIL-STD-1553, Command Response Multiplex Data Bus

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: AITECH
PRODUCT: MULTI-PROTOCOL COMMUNICATIONS BOARD
PART NO: 5C401
TYPE: INPUT/OUTPUT
CATEGORY: MIL

FEATURES:

On-board 68000 (8, 10, 12.5 MHz)
Up to 128 KB of EPROM or EEPROM
64 KB dual-ported RAM
64 KB of static RAM (0 wait states)
DMA controller (2 or 4 channels)
DMA channel 68000 local to VMEbus
On-board timer
Up to 12 RS-232/RS-422 serial ports
Transfer rate up to 1 Mbit/sec
A32 address width
Interrupt requester/handler

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	0 - 95%
VIBRATION - SINE:	4.2g / 5 - 500 Hz
VIBRATION - RANDOM:	7.6g RMS/20 - 2000Hz
SHOCK:	30g / 11 ms half sine
ALTITUDE:	70 000 Ft.

COMMENTS:

Conduction cooled. No forced air or base-plate cooling required. Board has nickel-plated copper or anodized aluminum heat sink which dissipates heat from components to sides of enclosure. Board fastened to enclosure with mechanical locks.

VMEbus PRODUCT RECORD

VENDOR: AITECH
PRODUCT: 1553B ADVANCED CONTROLLER BOARD
PART NO: 5C700
TYPE: LOCAL AREA NETWORK
CATEGORY: MIL

FEATURES:

On-board 68000 (8, 10, 12.5 MHz)
Up to 128 KB of EPROM or EEPROM
64 KB dual-ported RAM (256 KB opt.)
16 KB of protocol-shared RAM
DMA controller (2 or 4 channels)
Fully complies with MIL-STD-1553B
Up to 4 timer/counters
Up to 5 RS-232/RS-422 serial ports
Opt. 8-bit programmable I/O port
A24:A32, D16 address, data width
Interrupt requester/handler

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-1553, Command Response Multiplex Data Bus
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	0 - 95%
VIBRATION - SINE:	4.2g / 5 - 500 Hz
VIBRATION - RANDOM:	7.6g RMS/20 - 2000Hz
SHOCK:	30g / 11 ms half sine
ALTITUDE:	70 000 Ft.

COMMENTS:

Conduction cooled. No forced air or base-plate cooling required. Board has nickel-plated copper or anodized aluminum heat sink which dissipates heat from components to sides of enclosure. Board fastened to enclosure with mechanical locks.

VMEbus PRODUCT RECORD

VENDOR: AITECH
PRODUCT: SCSI CONTROLLER INTERFACE BOARD
PART NO: 5C301
TYPE: MASS STORAGE
CATEGORY: MIL

FEATURES:

On-board 68000 slave processor
Up to 128 KB of EPROM
Up to 64 KB dual-ported RAM
DMA channel 68000 local to VMEbus
DMA channel between SCSI and VMEbus
Transfer rate up to 2.5 MB/sec
16 MB transfer in single command
2 RS-232/RS-422 serial channels
Interrupt requester/handler

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	0 - 95%
VIBRATION - SINE:	4.2g / 5 - 500 Hz
VIBRATION - RANDOM:	7.6g RMS/20 - 2000Hz
SHOCK:	30g / 11 ms half sine
ALTITUDE:	70 000 Ft.

COMMENTS:

Conduction cooled. No forced air or base-plate cooling required. Board has nickel-plated copper or anodized aluminum heat sink which dissipates heat from components to sides of enclosure. Board fastened to enclosure with mechanical locks.

VMEbus PRODUCT RECORD

VENDOR: AITECH
PRODUCT: STATIC RAM (SRAM) BOARD
PART NO: 5C201
TYPE: MEMORY
CATEGORY: MIL

FEATURES:

Up to 1 MB of static RAM or
Up to 2 MB of EPROM
8 mixed types of JEDEC ICs on board
Battery back-up
120 - 180 ns access time

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	0 - 95%
VIBRATION - SINE:	4.2g / 5 - 500 Hz
VIBRATION - RANDOM:	7.6g RMS/20 - 2000Hz
SHOCK:	30g / 11 ms half sine
ALTITUDE:	70 000 Ft.

COMMENTS:

Conduction cooled. No forced air or base-plate cooling required. Board has nickel-plated copper or anodized aluminum heat sink which dissipates heat from components to sides of enclosure. Board fastened to enclosure with mechanical locks.

VMEbus PRODUCT RECORD

VENDOR: AITECH
PRODUCT: DYNAMIC RAM (DRAM) BOARD
PART NO: 5C202
TYPE: MEMORY
CATEGORY: MIL

FEATURES:

Up to 2 MB of dynamic RAM
Auto error detection and correction
Built-in diagnostics
210 - 280 ns access time

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	0 - 95%
VIBRATION - SINE:	4.2g / 5 - 500 Hz
VIBRATION - RANDOM:	7.6g RMS/20 - 2000Hz
SHOCK:	30g / 11 ms half sine
ALTITUDE:	70 000 Ft.

COMMENTS:

Conduction cooled. No forced air or base-plate cooling required. Board has nickel-plated copper or anodized aluminum heat sink which dissipates heat from components to sides of enclosure. Board fastened to enclosure with mechanical locks.

VMEbus PRODUCT RECORD

VENDOR: AITECH
PRODUCT: STATIC RAM (SRAM) BOARD
PART NO: 5C203
TYPE: MEMORY
CATEGORY: MIL

FEATURES:

Up to 4 MB of static RAM, EPROM or
EEPROM or any combination
4 mixed types of JEDEC ICs on board
Battery back-up
120 - 180 ns access time
A24:A32,D16:D32 address, data width

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	0 - 95%
VIBRATION - SINE:	4.2g / 5 - 500 Hz
VIBRATION - RANDOM:	7.6g RMS/20 - 2000Hz
SHOCK:	30g / 11 ms half sine
ALTITUDE:	70 000 Ft.

COMMENTS:

Conduction cooled. No forced air or base-plate cooling required. Board has nickel-plated copper or anodized aluminum heat sink which dissipates heat from components to sides of enclosure. Board fastened to enclosure with mechanical locks.

VMEbus PRODUCT RECORD

VENDOR: AITECH
PRODUCT: 88000 SINGLE BOARD COMPUTER
PART NO: 5C180
TYPE: SINGLE BOARD COMPUTER
CATEGORY: MIL

FEATURES:

88100 RISC CPU (20 MHz)
Two 88200 cache/MMUs
128 KB dual-ported RAM
A24, A32 address width
D16, D32 data width
3 RS-232/RS-422 serial ports
3 programmable timer/counters
VMEbus arbiter, requester
VMEbus interrupt handler
System, power failure sensing

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	0 - 95%
VIBRATION - SINE:	4.2g / 5 - 500 Hz
VIBRATION - RANDOM:	7.6g RMS/20 - 2000Hz
SHOCK:	30g / 11 ms half sine
ALTITUDE:	70 000 Ft.

COMMENTS:

Conduction cooled. No forced air or base-plate cooling required. Board has nickel-plated copper or anodized aluminum heat sink which dissipates heat from components to sides of enclosure. Board fastened to enclosure with mechanical locks.

VMEbus PRODUCT RECORD

VENDOR: AITECH
PRODUCT: 68030 SINGLE BOARD COMPUTER
PART NO: 5C130
TYPE: SINGLE BOARD COMPUTER
CATEGORY: MIL

FEATURES:

68030 CPU (20 MHz) with MMU
68882 FPP (optional)
Up to 1 MB dual-ported static RAM
A24:A32,D16:D32 address, data width
Up to 256 KB local EPROM or EEPROM
3 RS-232/RS-422 serial ports
3 programmable timer/counters
VMEbus arbiter,requester,interrupts
Built-in Test
System, power failure sensing

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	0 - 95%
VIBRATION - SINE:	4.2g / 5 - 500 Hz
VIBRATION - RANDOM:	7.6g RMS/20 - 2000Hz
SHOCK:	30g / 11 ms half sine
ALTITUDE:	70 000 Ft.

COMMENTS:

Conduction cooled. No forced air or base-plate cooling required. Board has nickel-plated copper or anodized aluminum heat sink which dissipates heat from components to sides of enclosure. Board fastened to enclosure with mechanical locks.

VMEbus PRODUCT RECORD

VENDOR: AITECH
PRODUCT: 68020 SINGLE BOARD COMPUTER
PART NO: 5C120
TYPE: SINGLE BOARD COMPUTER
CATEGORY: MIL

FEATURES:

68020 CPU (20 MHz) with MMU
68881/68882 FPP (optional)
Up to 512 KB dual-ported static RAM
A24:A32,D16:D32 address, data width
Up to 256 KB local EPROM or EEPROM
3 RS-232/RS-422 serial ports
3 programmable timer/counters
VMEbus arbiter,requester,interrupts
Built-in Test
System, power failure sensing

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	0 - 95%
VIBRATION - SINE:	4.2g / 5 - 500 Hz
VIBRATION - RANDOM:	7.6g RMS/20 - 2000Hz
SHOCK:	30g / 11 ms half sine
ALTITUDE:	70 000 Ft.

COMMENTS:

Conduction cooled. No forced air or base-plate cooling required. Board has nickel-plated copper or anodized aluminum heat sink which dissipates heat from components to sides of enclosure. Board fastened to enclosure with mechanical locks.

VMEbus PRODUCT RECORD

VENDOR: AITECH
PRODUCT: 68000 SINGLE BOARD COMPUTER
PART NO: 5C102
TYPE: SINGLE BOARD COMPUTER
CATEGORY: MIL

FEATURES:

68000 CPU (8, 10, 12.5 MHz)
A32 address width
64 KB dual-ported RAM
64 KB high-speed 0-wait states RAM
Up to 128 KB local EPROM or EEPROM
Up to 12 RS-232/RS-422 serial ports
Programmable timer
VMEbus arbiter, requester, interrupts
Built-in-Test
System, power failure sensing
DMA Controller (2 or 4 channels)

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	0 - 95%
VIBRATION - SINE:	4.2g / 5 - 500 Hz
VIBRATION - RANDOM:	7.6g RMS/20 - 2000Hz
SHOCK:	30g / 11 ms half sine
ALTITUDE:	70 000 Ft.

COMMENTS:

Conduction cooled. No forced air or base-plate cooling required. Board has nickel-plated copper or anodized aluminum heat sink which dissipates heat from components to sides of enclosure. Board fastened to enclosure with mechanical locks.

VMEbus PRODUCT RECORD

VENDOR: AITECH
PRODUCT: 68000 MULTI-FUNCTION CPU BOARD
PART NO: 5C103
TYPE: SINGLE BOARD COMPUTER
CATEGORY: MIL

FEATURES:

68000 CPU (8, 10, 12.5 MHz)
A32:A24,D16 address, data width
64 KB (up to 256) dual ported RAM
Up to 32 bits discrete parallel I/O
Up to 256 KB local EPROM or EEPROM
5 RS-232/RS-422 serial ports
5 programmable timer/counters
VMEbus arbiter,requester,interrupts
Built-in-Test
System, power failure sensing
DMA Controller (2 or 4 channels)
16 analog inputs, 2 analog outputs

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	0 - 95%
VIBRATION - SINE:	4.2g / 5 - 500 Hz
VIBRATION - RANDOM:	7.6g RMS/20 - 2000Hz
SHOCK:	30g / 11 ms half sine
ALTITUDE:	70 000 Ft.

COMMENTS:

Conduction cooled. No forced air or base-plate cooling required. Board has nickel-plated copper or anodized aluminum heat sink which dissipates heat from components to sides of enclosure. Board fastened to enclosure with mechanical locks.

VMEbus PRODUCT RECORD

VENDOR: AITECH
PRODUCT: ENCLOSURE/CHASSIS
PART NO: 5E101
TYPE: CHASSIS
CATEGORY: RUG

FEATURES:

Standard 1/2 ATR
5 standard 6U VME slots
1 serial communications port (RS-232/422)
90 watt Power Supply

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	0 to 95%
VIBRATION - SINE:	4.2g at 5 to 500Hz
VIBRATION - RANDOM:	7.6g rms 20 to 2000Hz
SHOCK:	30g for 11ms (half sine)
ALTITUDE:	70000 feet

COMMENTS:

Salt Fog: MIL-STD-810C, Method 509.1k
Dust: MIL-STD-810C, Method 510.1
EMI/RFI: MIL-STD-461B, MIL-STD-462

VMEbus PRODUCT RECORD

VENDOR: ANATARES
PRODUCT: NTDS INPUT/OUTPUT, TYPE F
PART NO: 4001/4941
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Intelligent NTDS DMA I/O for MIL-STD-1397B
Type F (MIL-STD-1553A/B bus)
Software selectable controller
RTU with multiple bus addressing and monitor
10 MHz 2901 bit slice controller

MIL-SPECS AND MIL-STDs:

MIL-STD-1397, I/O Interfaces, Standard Digital Data
MIL-STD-1553, Command Response Multiplex Data Bus

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ANTARES
PRODUCT: NTDS INPUT/OUTPUT, TYPE A AND B
PART NO: 4001/4901
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Intelligent NTDS DMA I/O for MIL-STD-1397B,
Type A and B (switch selectable)
Software selectable Category I, II, or III
10 MHz 2901 bit slice controller

MIL-SPECS AND MIL-STDs:

MIL-STD-1397, I/O Interfaces, Standard Digital Data

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ANTARES
PRODUCT: NTDS INPUT/OUTPUT, TYPE B AND C
PART NO: 4001/4911
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Intelligent NTDS DMA I/O for MIL-STD-1397B
Type B and C (switch selectable) with
differential receivers
Software selectable Category I, II, or III
10 MHz 2901 bit slice controller

MIL-SPECS AND MIL-STDs:

MIL-STD-1397, I/O Interfaces, Standard Digital Data

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ANTARES
PRODUCT: NTDS INPUT/OUTPUT, TYPE D
PART NO: 4001/4921
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Intelligent NTDS DMA I/O for MIL-STD-1397
Type D (NTDS serial)
10 MHz 2901 bit slice controller

MIL-SPECS AND MIL-STDs:

MIL-STD-1397, I/O Interfaces, Standard Digital Data

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ANTARES
PRODUCT: NTDS INPUT/OUTPUT, TYPE E
PART NO: 4001/4931
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Intelligent NTDS DMA I/O for MIL-STD-1397
Type E (NATO Serial)
Software selectable SIF and burst mode
10 MHz 2901 bit slice controller

MIL-SPECS AND MIL-STDs:

MIL-STD-1397, I/O Interfaces, Standard Digital Data

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ARIEL SYSTEMS INC
PRODUCT: SERIAL I/O
PART NO: Autoscan series
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

Max 32 full duplex RS-232 async. serial I/O ports
TMS 99105A (24MHz) processor
64KBytes SRAM
Data lengths from 5-8 bits: even, odd, or no parity
A16/24:D8/16/32 Slave VMEbus Interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	+10C to +38C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	10 to 85% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	.3g 5 to 100Hz
SHOCK:	
ALTITUDE:	-150 to +4500 Meters

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: BICC-VERO
PRODUCT: CHASSIS
PART NO: 173-xxxxx
TYPE: CHASSIS
CATEGORY: COTS

FEATURES:

DIN and IEC standard
Compatible with all Eurocard based bus systems

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: BICC-VERO
PRODUCT: CHASSIS
PART NO: 224-81609
TYPE: CHASSIS
CATEGORY: COTS

FEATURES:

Assembled, wired system
20 slot J1/J2
500 W power supply
7U high with integral fan tray
19" rack mountable
500 mm deep

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: BICC-VFRO
PRODUCT: CHASSIS
PART NO: 224-81610
TYPE: CHASSIS
CATEGORY: COTS

FEATURES:

Assembled, wired system
10 slot J1/J2
Divided 42HP 6U, 42 HP 3U, 6U high with 500 W
power supply and integral fan plinth

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: BICC-VERO
PRODUCT: POWER SUPPLY
PART NO: 116-33168G
TYPE: POWER SUPPLY
CATEGORY: COTS

FEATURES:
110/220VAC module 12A at 5V

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:
OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: BICC-VERO
PRODUCT: POWER SUPPLY
PART NO: 116-33255D
TYPE: POWER SUPPLY
CATEGORY: COTS

FEATURES:
110/220VAC module 5A at 12V

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:
OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: BICC-VERO
PRODUCT: POWER SUPPLY
PART NO: 116-33254G
TYPE: POWER SUPPLY
CATEGORY: COTS

FEATURES:
110/220VAC module 4A at 15V

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:
OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: BICC-VERO
PRODUCT: POWER SUPPLY
PART NO: 116-33253K
TYPE: POWER SUPPLY
CATEGORY: COTS

FEATURES:
110/220VAC module 2.5A at 24V

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:
OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: BICC-VERO
PRODUCT: POWER SUPPLY
PART NO: 116-44898B
TYPE: POWER SUPPLY
CATEGORY: COTS

FEATURES:
Plug-in module 40A at 5V

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:
OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: BICC-VERO
PRODUCT: POWER SUPPLY
PART NO: 116-44899K
TYPE: POWER SUPPLY
CATEGORY: COTS

FEATURES:

Plug-in module 20A at 12V

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: BICC-VERO
PRODUCT: POWER SUPPLY
PART NO: 116-44900B
TYPE: POWER SUPPLY
CATEGORY: COTS

FEATURES:

Plug-in module 10A at 24V

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: BICC-VERO
PRODUCT: POWER SUPPLY
PART NO: 261-47129G
TYPE: POWER SUPPLY
CATEGORY: COTS

FEATURES:

110/220VAC power system with forced air cooling
45A at 5V, 4A at -5V, 10A at +/-12V, 10A at 24V

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: BICC-VERO
PRODUCT: POWER SUPPLY
PART NO: 261-xxxxx
TYPE: POWER SUPPLY
CATEGORY: COTS

FEATURES:

Several models of 500W and 750W power systems
High current +5V outputs
High reliability enclosed power system

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

Use with 19" card frames

VMEbus PRODUCT RECORD

VENDOR: BICC-VERO
PRODUCT: CHASSIS
PART NO: 167-XXXXXX
TYPE: CHASSIS
CATEGORY: RUG

FEATURES:

Heavy duty card frame
Conductively finished
Houses 6U and 9U Eurocards up to 400 mm deep
Positive guide locking
Based on format specified in IEEE P1101
Built to meet MIL-STD-167

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: CIPRICO
PRODUCT: HALF INCH TAPE CONTROLLER
PART NO: TM 3000
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

Controls up to 8 start/stop or streaming, GCR, PE,
or NRZI tape drives conforming to PERTEC
interface standard
Drive data rates up to 2 MBytes per second
Burst data rate of 13 MBytes per second
Dual ranked FIFO architecture
16/32-bit transfers

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: CIPRICO
PRODUCT: SMD-E CACHING DISK CONTROLLER
PART NO: RF 3200
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

Controls two drives with data rate up to 24 MHz
Burst data rate of 30 MBytes per second
512 KByte configurable cache with read ahead
48-bit ECC
Supports multiple command/status queues
8/16/32-bit transfers

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: CIPRICO
PRODUCT: ESDI DISK CONTROLLER
PART NO: RF 3400
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

Controls four drives with serial data rates up to
20 MHz
Burst data rate of 30 MBytes per second
512 KByte configurable cache with read ahead
48-bit ECC
Supports multiple command/status queues
8/16/32-bit transfers

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: CIPRICO
PRODUCT: SCSI HOST BUS ADAPTER
PART NO: RF 3510
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

- Supports up to seven SCSI devices
- 5 MBytes per second synchronous and 2 MBytes per second asynchronous capability
- Supports CCS and vendor unique commands through pass-through command interface
- Single ended or differential bus transceivers
- Supports four IBM PC XT/AT compatible floppies
- Burst data rate of 30 MBytes per second
- 8/16/32-bit transfers

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE :

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: 8 CHANNEL SERIAL INTERFACE
PART NO: CC-82
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Eight independent serial interfaces (2661 EPCI)
Synchronous or asynchronous data transfer
Software programmable baud rate
Each channel can be reset individually
Each channel has its own interrupt vector and
interrupt mask register
I/O lines are available at the P2 connector and
at onboard flat cable connectors
Optional configuration: Eight 25-pin D-connectors
on an 8 TE front panel

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: INDUSTRIAL I/O
PART NO: CC-92
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

32 isolated digital inputs with change-of-state
detection (opto-coupler)
Programmable interrupt level/vector

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: INDUSTRIAL I/O
PART NO: CC-94-NO/NC
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

32 isolated digital outputs with read-back (relay)

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: INDUSTRIAL I/O
PART NO: CC-94-SS
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

32 isolated digital outputs with solid state
(relay)

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: INDUSTRIAL I/O
PART NO: CC-106
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

24 isolated digital inputs with 16-bit timer/
counter (8x MC6840)

Each timer/counter can generate interrupts at a
programmable level and with a programmable
vector

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:

NON-OPERATING TEMPERATURE:

HUMIDITY:

VIBRATION - SINE:

VIBRATION - RANDOM:

SHOCK:

ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: INCREMENTAL ENCODER INTERFACE
PART NO: CC-133
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

9 channel isolated
Using THCT12316, board can determine rotation and
direction of nine independent mechanical axes,
based on transducers with two output signals in
quadrature

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: INTELLIGENT I/O MODULE
PART NO: CC-150
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

MC68000 MPU (16 MHz)
256 KByte RAM
256 KByte EPROM
Two serial ports
parallel port: 16 input, 16 output
VMEbus slave interface with 4 KByte shared RAM

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: A/D AND D/A MODULE
PART NO: CC-151
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

16 channel 12-bit ADC
8 channel 12-bit DAC

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: TOKEN RING ADAPTER MODULE
PART NO: CC-140
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

Connects VMEbus to IEEE 802.5 Token Ring LAN
TMS380 chip with 0.5 or 2 MByte local DRAM
TROLI for 4 or 16 Mbit/sec
Local 68020 (20 MHz)
1 or 4 MBytes shared DRAM
Up to 4 MByte EPROM
Standard firmware provides IEEE 802.2 LLC function

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: X.25 INTERFACE MODULE
PART NO: CC-125
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

Local 68000 MPU (16 MHz)
Layer 3 connection-oriented network service
Dual port RAM interface
Layer 2 LAPB protocol
Layer 1 V.24/V.28 interface
Interrupt capability

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: ARCNET INTERFACE BOARD
PART NO: CC-121
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

Uses COM9026 to implement an interface to the
ARCNET LAN (token bus)
2 Kbyte dual ported data buffer
Separate node ID register
Software selectable IRQ vector

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: ARCNET INTERFACE MODULE
PART NO: CC-123-FH/FL
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

Contains COM9026 ARCNET controller
2 KByte dual ported data buffer
Separate node ID register
Software selectable IRQ vector
High or low impedance cable interface
BNC connector on front

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: ARCNET INTERFACE MODULE
PART NO: CC-123-FOP
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

Contains COM9026 ARCNET controller
2 KByte dual ported data buffer
Separate node ID register
Software selectable IRQ vector
Optical medium interface with plastic fiber

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: DMA SCSI INTERFACE
PART NO: CC-74
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

SCSI protocol controller (NCR 5386)
Supports arbitration, disconnection, and reselection
May act as initiator or target on the SCSI bus
Four channel DMA controller (68450)
Supports 8 or 16-bit data transfers
Two channels used for SCSI
Two channels user defined
Programmable AM code generation
Software selectable bus request level and
interrupt request level

MIL-SPECS AND MIL-STDS:**ENVIRONMENTAL CHARACTERISTICS:**

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: DMA SCSI INTERFACE
PART NO: CC-174
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

- Differential mode bus option
- SCSI protocol controller (NCR 5386)
- Supports arbitration, disconnection, and reselection
- May act as initiator or target on the SCSI bus
- Four channel CMA controller
- Supports 8 or 16-bit data transfers
- Two channels used for SCSI
- Two channels user defined
- Programmable AM code generation
- Software selectable bus request level and interrupt request level

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: FLOPPY DISK MODULE WITH SCSI
PART NO: CC-93F
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

Contains on-card one or two 1.6 MByte Floppy disk
drives with full SCSI interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: HARD DISK MODULE WITH SCSI
PART NO: CC-93H
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

Contains on-card one or two 40/100/200/250 MByte
Winchester drives with full SCSI interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:
OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: TAPE MODULE WITH SCSI
PART NO: CC-93T
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

Contains on-card one or two 150 MByte tape drives
with full SCSI interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: HARD AND FLOPPY DISK MODULE W/SCSI
PART NO: CC-93HF
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

Contains on-card Hard and Floppy disk drive with
full SCSI interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: HARD DISK AND TAPE MODULE W/SCSI
PART NO: CC-93HT
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

Contains on-card Hard disk and Tape drive with
full SCSI interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: HARD/OPTICAL DISK MODULE W/SCSI
PART NO: CC-93HO
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

Contains on-card Hard and Optical disk drive with
full SCSI interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: FLOPPY/TAPE DRIVE MODULE W/SCSI
PART NO: CC-93FT
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

Contains on-card Floppy disk drive and Tape drive
with full SCSI interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: MEMORY BOARD
PART NO: CC-69
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

512 KByte dynamic RAM with parity
8/16 bit data transfers
Selectable address modifiers

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: MEMORY BOARD
PART NO: CC-81-4
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

4 MByte dynamic RAM with parity
8, 16, and 32-bit and unaligned data transfers
Selectable address modifiers

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: MEMORY BOARD
PART NO: CC-81-8
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

8 MByte dynamic RAM with parity
8, 16, and 32-bit and unaligned data transfers
Selectable address modifiers

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: MEMORY BOARD
PART NO: CC-86
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

- ram/eprom module
- Up to 1 MByte SRAM/EEPROM
- Up to 2 MByte ROM/EPROM
- Four blocks of 8 (28-pin) JEDEC sockets
- Selectable battery backup for CMOS memory
- Supports 2764, 27128, 27256, and 27512 EPROM devices
- Supports 2764, 27256 compatible RAM/EEPROM devices
- Selectable address modifiers

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: MEMORY BOARD
PART NO: GC86R32K8
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

RAM/EPROM module with 256 KByte SRAM

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: MEMORY BOARD
PART NO: CC86R32K16
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

RAM/EPROM module with 512 KByte SRAM

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: MEMORY BOARD
PART NO: CC86R32K32
TYPE: MEMORY
CATEGORY: COTS

FEATURES:
RAM/EPROM module with 1 MByte SRAM

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:
OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: MEMORY BOARD
PART NO: CC-87
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

2 MByte dynamic RAM with parity
8, 16, and 32-bit and unaligned data transfers
Selectable address modifiers

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: MEMORY BOARD
PART NO: CC-109-1-16
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

- 16 MByte DRAM module with VMEbus and VSB interface
- 1 MBit dynamic memory devices
- Byte-wide parity
- Selectable address modifiers
- 8, 16, and 32-bit and unaligned data transfers
- Flexible base address selection

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: MEMORY BOARD
PART NO: CC-109-4-16
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

- 16 MByte DRAM module with VMEbus and VSB interface
- 4 MBit dynamic memory devices
- Byte-wide parity
- Selectable address modifiers
- 8, 16, and 32-bit and unaligned data transfers
- Flexible base address selection

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: MEMORY BOARD
PART NO: CC-109-4-32
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

- 32 MByte DRAM module with VMEbus and VSB interface
- 4 MBit dynamic memory devices
- Byte-wide parity
- Selectable address modifiers
- 8, 16, and 32-bit and unaligned data transfers
- Flexible base address selection

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: MEMORY BOARD
PART NO: CC-109-4-64
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

- 64 MByte DRAM module with VMEbus and VSB interface
- 4 MBit dynamic memory devices
- Selectable address modifiers
- 8, 16, and 32-bit and unaligned data transfers
- Flexible base address selection

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: MEMORY BOARD
PART NO: CC-138
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

R5AM/EPROM module
Up to 12 MByte SRAM and 24 MByte ROM/EPROM/EEPROM
Three blocks of 8 (32-pin) JEDEC sockets
Selectable battery backup for CMOS static RAM
Supports 1, 2, 4, or 8 MBit devices
Onboard programming of flash EPROMs

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: SINGLE BOARD COMPUTER
PART NO: CC-73-0-10
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

MC68000L (10MPU)
4-Level Arbiter
4-Level Bus Requester, 7-Level Interrupt Handler
Up to 64 KByte RAM
Up to 128 KByte EPROM
Two serial ports
Dual 8-bit parallel port
Three programmable timer/counters
A24:D16 VMEbus interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: SINGLE BOARD COMPUTER
PART NO: CC-97-0-16
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

TS68000 (16 MPU)
4-Level Bus Requester, 7-Level Interrupt Handler
Up to 384 KByte RAM/EPROM
2 MByte dual ported RAM
Four DMA serial ports
Full DMA SCSI interface
Three programmable timer/counters
A24:D16 VMEbus interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: SINGLE BOARD COMPUTER
PART NO: CC-103
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

Processor for intelligent I/O modules
MC68020 (16 MHz)
1 MByte local RAM
32 KByte dual port RAM
Two serial ports
Interrupter and Interrupt Handler
FIFO-bases DMA data transfers
Optional floating-point coprocessor

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: SINGLE BOARD COMPUTER
PART NO: CC-112-4
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

MC68030L20 MPU (20 MHz) for 32-bit systems
4 MByte shared DRAM
2 MByte EPROM
2 KByte SRAM
Two RS-232C serial ports
16-bit timer/counter
SCSI interface
VMSbus interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: SINGLE BOARD COMPUTER
PART NO: CC-112-16
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

MC68030L20 MPU (20 MHz) for 32-bit systems
16 MByte shared DRAM
2 MByte EPROM
2 KByte SRAM
Two RS-232C serial ports
16-bit timer/counter
SCSI interface
VMSbus interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIERATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: SINGLE BOARD COMPUTER
PART NO: CC-118
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

MC68020L16 MPU (16 MHz) for 16-bit systems
1 MByte dual-ported 0-wait state DRAM
4 MByte EPROM
16 KByte EEPROM
Four RS-232C serial ports
Two 16-bit timer/counters
Parallel port with 16 input, 16 output, and 4
control lines

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: SINGLE BOARD COMPUTER
PART NO: CC-135
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

Communications Processor Board
68000 MPU (16 MHz)
Four multi-protocol channels
Two RS-232C serial channels
2 MByte dual-ported DRAM
Up to 512 KByte EPROM

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: SINGLE BOARD COMPUTER
PART NO: CC-145
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

MC68040 MPU (25/50 MHz) for 32-bit systems
4/16 MByte shared DRAM
4 MByte EPROM
2 KByte SRAM
Four RS-232C serial ports
16-bit timer/counter
SCSI interface
7-Level Interrupter and Interrupt Handler

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPCONTROL
PRODUCT: MEMORY MAPPED COLOR VIDEO INTERFACE
PART NO: CC-143
TYPE: VIDEO/GRAPHICS
CATEGORY: COTS

FEATURES:

Up to 1280 x 1024 pixels at 60Hz
1, 2 or 4 MByte Video RAM
Keyboard and Mouse interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: COMMUNICATIONS CONTROLLER BOARD
PART NO: CM-IOC-20
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

Local 8-bit processor
Dual port RAM
RS-232 serial port
RS-422 serial port and keyboard input
Centronics parallel port
Intelligent I/O data management
A16/24:D8 VMEbus Interface

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -40C to +85C
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: ANALOG TO DIGITAL MODULE
PART NO: CM-AD-30
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

- 64 channels
- On board 8-bit processor and dual port RAM
- 12-bit resolution
- Soft programmable gain per channel
- DC input
 - (0-5,0-10,0-50,0-100,+/-2.5,+/-5,+/-25,+/-50V)
- AC input with RMS cnvtr (0-5,0-10,0-50,0-100)
- mA input (0-10,0-20,4-20,0-50)
- Intelligent data filtering
- Overvoltage input protection
- Galvanic Isolation
- A16/24:D8 VMEbus Interface

MIL-SPECS AND MIL-STDS:

- MIL-STD-810, Environmental Test Methods
- MIL-STD-883, Microelectronics Test Methods/Procedures
- MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE: -40C to +85C
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: ANALOG TO DIGITAL MODULE
PART NO: CM-AD-20
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

8 channels
Same as CM-AD-30 without galvanic isolation
A16/24:D8 VMEbus Interface

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -40C to +85C
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: DIGITAL TO ANALOG MODULE
PART NO: CM-DA-30
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

24 channels
12-bit resolution
Internal precision reference for DC
External input reference for AC or DC
Intrl latches on D/A converts to store output data
Unipolar or bipolar output range
(0-5,0-10,+/-5,+/-10 VDC)
Galvanic isolation
A16/24:D16 VMEbus Interface

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -40C to +85C
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: DIGITAL TO ANALOG MODULE
PART NO: CM-DA-20
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

8 channels
12-bit resolution
Same as CM-DA-30 without galvanic isolation
A16/24:D16 VMEbus Interface

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -40C to +85C
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADOPES MODULARES S.A.
PRODUCT: SYNCHRO RESOLVER TO DIGITAL MODULE
PART NO: CM-SD-20
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

2/4 channel
14-bit resolution
Synchro input range 90 or 11.8V RMS, 400Hz
Resolver input range 90, 26 or 11.8V RMS, 400Hz
Full galvanic isolation in all inputs
Precision ScoH and reference transformers
A16/24:D16 VMEbus Interface

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -40C to +85C
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: DIGITAL TO SYNCHRO RESOLVER MODULE
PART NO: CM-DS-20
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

- 2 channels
- 16-bit resolution
- On-chip 16-bit latches to store output data
- On-board precision output transformers
- Drivers (power OP amps) included to output up to 15VA per channel
- Output range 90 or 11.8v RMS (synchro) and 90,26,11.8v RMS (resolver)
- A16/24:D16 VMEbus Interface

MIL-SPECS AND MIL-STDS:

- MIL-STD-810, Environmental Test Methods
- MIL-STD-883, Microelectronics Test Methods/Procedures
- MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE: -40C to +85C
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: DIGITAL INPUT BOARD
PART NO: CM-DI-30
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

64 optocoupled channels
Ea chan independently isolated(1kv) and can be
driven with AC or DC voltage
Input protection up to 350v (DC to 10KHz)
A16/24:D8/16 VMEbus Interface

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -40C to +85C
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: DIGITAL INPUT BOARD
PART NO: CM-DI-20
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

16 optocoupled channels
Ea chan independently isolated(1KV) and can be
driven with AC or DC voltage
Input protection up to 350V
Input range 3-350V (DC to 10KHz)
A16/24:D8/16 VMEbus Interface

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -40C to +85C
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: DIGITAL OUTPUT BOARD
PART NO: CM-DO-30
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

64 relay/optocoupler isolated channels
Relay version drives up to 250V, 2A
Optocoupler version outputs an open collector
phototransistor (up to 30V, 50mA)
A16/24:D8/16 VMEbus Interface

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -40C to +85C
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: DIGITAL OUTPUT BOARD
PART NO: CM-DO-20
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

- 16 relay/optocoupler isolated channels
- Relay version drives up to 250V, 2A
- Optocoupler version outputs an open collector phototransistor (up to 30V, 50mA)
- A16/D4:D8/16 VMEbus Interface

MIL-SPECS AND MIL-STDs:

- MIL-STD-810, Environmental Test Methods
- MIL-STD-883, Microelectronics Test Methods/Procedures
- MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE: -40C to +85C
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: 1553 BUS CONTROLLER MODULE
PART NO: CM-1553-20
TYPE: LOCAL AREA NETWORK
CATEGORY: RUG

FEATURES:

Dual intrf. to 1553 bus isolated by transformers
On board 16(64)KBytes dual port SRAM 16-bit wide
Programmable as Bus Ctrlr, Remote Trml, or Bus Mon
A16/24:D8/16 VMEbus Interface

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: MEMORY EXPANSION MODULE
PART NO: CM-MEM-20
TYPE: MEMORY
CATEGORY: RUG

FEATURES:

16-bit wide
Up to 5MByte SRAM
Up to 2.5MByte EPROM
32, 64, 128, 256, and 512K chip sizes
A16/24:D8/16 VMEbus Interface

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -40C to +85C
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: 32-BIT PROCESSOR BOARD
PART NO: CM-CPU-34
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

68030 (25MHz) CPU
68882 (25MHz) FFP
2MByte SRAMk
2MByte EPROM
TS-68483 Graphics Processor max 1.25MByte GRAM
16 color, 2048x1024 Frame Buffer
RS-232, RS-422, and Centronics ports
A16/24/32:D8/16/32 VMEbus Interface

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -40C to +85C
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: 32-BIT PROCESSOR BOARD
PART NO: CM-CPU-32
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

68030 (25MHz) CPU
Optional 68881 or 68882 Coprocessor
2MByte SRAM
1MByte EPROM
A16/24:D8/16 VMEbus Interface

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -40C to +85C
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: 32-BIT PROCESSOR BOARD
PART NO: CM-CPU-30
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

68030 (25MHz) CPU
Optional 68881 or 68882 Coprocessor
4MByte SRAM
2MByte EPROM
RS-232, RS-422, and Centronics ports
A16/24/32:D8/16/32 VMEbus Interface

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -40C to +85C
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: GRAPHIC MODULE
PART NO: CM-VID-30
TYPE: VIDEO/GRAPHICS
CATEGORY: RUG

FEATURES:

AGAC TS-68483 Processor
3 image memory banks
Up to 4.5MByte SRAM
9 planes of 2048x2048 pixels frame buffer
Analog color palette BT-453 with 4.19 mil. colors
Programmable resolution up to 1024x800 pixels
A16/24:D16 VMEbus Interface

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -40C to +85C
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: GRAPHIC MODULE
PART NO: CM-VID-20
TYPE: VIDEO/GRAPHICS
CATEGORY: RUG

FEATURES:

AGAC TS-66483 processor
Two image memory banks
Up to 1.25MByte SRAM
5 planes of 2048 x 1024 pixels
Programmable video parameters max 720 x 512 pixels
Sixteen colors
TTL RGBI standard output
A16/24:D16 VMEbus Interface

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -40C to +85C
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: COMPUTADORES MODULARES S.A.
PRODUCT: CRT CONTROLLER MODULE
PART NO: CM-VID-10
TYPE: VIDEO/GRAPHICS
CATEGORY: RUG

FEATURES:

MC-6845 Processor
2KByte dual port RAM for video characters
On-board character EPROM
512 x 256 pixels monochrome
TTL and analog output

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -40C to +85C
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DATEL
PRODUCT: ANALOG INPUT/OUTPUT
PART NO: DVME-611 SERIES
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

32 single ended/16 differential channels
12,14,or 16-bit A/D conversion
Resolution 12 or 16 bit
Conversion rates: 20us, 4us, 35us, or 400ms
Accuracy: .025%, .01%, or .0063% of FSR
Linearity: +/- 1/2 LSB
Up to 256 channels expansion capability
CMRR 80dB at G=128
8 programmable gains

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DATEL
PRODUCT: ANALOG/DIGITAL CONVERTER
PART NO: DVME-612 SERIES
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

32 single ended/16 differential A/D channels
12, 14, or 16-bit conversion
Two 12-bit D/A channels
Resolution: 12-bit A/D, 12-bit D/A; or
16-bit A/D, 12-bit D/A
A/D Accuracy: .025%, .01%, or .0063%
D/A Accuracy: .05%
Conversion Rate: 20us, 4us, 35us, or 400ms
8 programmable gains
CMRR 80dB at G=128

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DATEL
PRODUCT: THERMOCOUPLE A/D
PART NO: DVME-602T
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

4 channel high isolation
Resolution: 12-bits plus sign
Accuracy: .03% of FSR
Isolation 1000V peak
Onboard signal conditioning
Conversion rate: up to 30/second
TC linearization
J,K,T,S,B,E and R type
CMMR 120dB

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DATEL
PRODUCT: RTD A/D
PART NO: DVME-602R
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Four channels
Resolution: 12-bits plus sign
Onboard signal conditioning
CMRR 94dB
Output in degrees C or degrees F

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DATEL
PRODUCT: HIGH LEVEL INPUT A/D
PART NO: DVME-602H
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Four channels high isolation
Resolution: 12-bits plus sign
Isolation: 1000V peak
Onboard signal conditioning
Voltage input range: 0-5V
Current input range: 4-20mA
CMMR 110dB

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DATEL
PRODUCT: ISOLATED VOLTAGE OUTPUT
PART NO: DVME-624 SERIES
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Four channel 12-bit D/A converter
12-bit resolution
300VRMS isolation
Voltage ranges: 0-5V, 0-10V, +/-2.5V, +/-5V, +/-10V
Settling time: 6us or 30us
Accuracy: .05% of FSR
Differential nonlinearity: +/- 1/2 LSB

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DATEL
PRODUCT: ISOLATED VOLTAGE AND CURRENT OUTPUT
PART NO: DVME-624 SERIES
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Four channel 12-bit converter
Resolution: 12-bit
Isolation: 300VRMS
Voltage ranges: 0-5V, 0-10V, +/-2.5V, +/-5V, +/-10V
Settling time: 6us or 30us
Accuracy: .1% of FSR
Current range: 4-20mA
Differential nonlinearity: +/- 1/2 LSB

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DIGITAL TECHNOLOGY
PRODUCT: INTELLIGENT 1553 INTERFACE
PART NO: DT 1150/215
TYPE: LOCAL AREA NETWORK
CATEGORY: MIL

FEATURES:

Controller, Remote Terminal, or Bus Monitir
Built-In-Test (BIT)
64 Kword memory (16-bit word)
12 Mhz clock

MIL-SPECS AND MIL-STDS:

MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-STD-1553, Command Response Multiplex Data Bus

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -10C to +55C
NON-OPERATING TEMPERATURE: -55C to +125C
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

Conformal coating

VMEbus PRODUCT RECORD

VENDOR: DY-4 SYSTEMS
PRODUCT: CONDUCTION COOLED CHASSIS
PART NO: DMV-976
TYPE: CHASSIS
CATEGORY: MIL

FEATURES:

Military chassis
6 slots for conduction cooled cards
0.6 inch pitch
Cooling via cold plate mounting
125 Watt power supply
MIL-STD-704D 28 VDC input

MIL-SPECS AND MIL-STDs:

MIL-STD-461, Electromagnetic Emission/Susceptibility
MIL-STD-704, Aircraft Electric Power Characteristics
MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +75C
NON-OPERATING TEMPERATURE:	-57C to +125C
HUMIDITY:	0 - 95% non-condensing
VIBRATION - SINE:	10g / 5 - 2000 Hz
VIBRATION - RANDOM:	0.15g ² / 15 - 2000 Hz
SHOCK:	30g/11ms half sine
ALTITUDE:	10 675 m (35 000 feet)

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DY-4 SYSTEMS
PRODUCT: SERIAL/PARALLEL I/O CARD
PART NO: DMV-202
TYPE: INPUT/OUTPUT
CATEGORY: MIL

FEATURES:

Two 8-bit parallel I/O channels,
Programmable as input or output
Eight serial I/O channels
Software-selectable baud rate
Software-selectable interrupts
Built-in-Test (BIT)
A16:D08 VME interface
Two serial channels can be configured as RS-422
Two channels can be configured for TTL signals
All I/O through P2 connector

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-65C to +125C
HUMIDITY:	0 - 95% non-condensing
VIBRATION - SINE:	10g / 5 - 2000 Hz
VIBRATION - RANDOM:	0.1g ² / 15 - 2000 Hz
SHOCK:	30g / 11 ms half sine
ALTITUDE:	21 350 m (70 000 feet)

COMMENTS:

Militarization through a thermal management layer,
which also enhances shock and vibration control.
Conduction cooled. Identical convection cooled
version, compliant with MIL-STD-883C, available.

VMEbus PRODUCT RECORD

VENDOR: DY-4 SYSTEMS
PRODUCT: SERIAL/PARALLEL I/O CARD
PART NO: DMV-204
TYPE: INPUT/OUTPUT
CATEGORY: MIL

FEATURES:

- 24 opto-isolated parallel inputs
- 8 opto-isolated parallel outputs
- 2 RS-232C serial ports
- Software-selectable baud rate
- Software-selectable interrupts
- Built-in-Test (BIT)
- A16:D08 VME interface
- Six 16-bit counters/timers
- All I/O via P2 backplane connector

MIL-SPECS AND MIL-STDs:

- MIL-STD-810, Environmental Test Methods
- MIL-STD-883, Microelectronics Test Methods/Procedures
- MIL-E-4158, General Requirements, Electronic Equipment, Ground
- MIL-T-5400, Airborne Electronic Equipment
- MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-65C to +125C
HUMIDITY:	0 - 95% non-condensing
VIBRATION - SINE:	10g / 5 - 2000 Hz
VIBRATION - RANDOM:	0.1g ² / 15 - 2000 Hz
SHOCK:	30g / 11 ms half sine
ALTITUDE:	21 350 m (70 000 feet)

COMMENTS:

Militarization through a thermal management layer, which also enhances shock and vibration control. Conduction cooled. Identical convection cooled version, compliant with MIL-STD-883C, available.

VMEbus PRODUCT RECORD

VENDOR: DY-4 SYSTEMS
PRODUCT: A/D CONVERTER
PART NO: DMV-666
TYPE: INPUT/OUTPUT
CATEGORY: MIL

FEATURES:

A16:D16 VMEbus interface
12-bit A/D resolution
Programmable gain control
Fast conversion (20 microsec)
8 input channels
Ranges +/-40V, +/-10V, or + 20mA
Built-in-Test (BIT)

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-65C to +125C
HUMIDITY:	0 - 95% non-condensing
VIBRATION - SINE:	10g / 5 - 2000 Hz
VIBRATION - RANDOM:	0.1g ² / 15 - 2000 Hz
SHOCK:	30g / 11 ms half sine
ALTITUDE:	21 350 m (70 000 feet)

COMMENTS:

Thermal management by an aluminum plane bonded to a standard VMEbus circuit module. Integral to cooling plane are vibration stiffening channels. Standard wedgelock fasteners for thermal and mechanical connection to the chassis.

VMEbus PRODUCT RECORD

VENDOR: DY-4 SYSTEMS
PRODUCT: INTELLIGENT SERIAL I/O
PART NO: DMV-707
TYPE: INPUT/OUTPUT
CATEGORY: MIL

FEATURES:

A16:D16, A24:D16 VMEbus master
10 MHz 68000 CPU on-board
4-channel DMAC
128KB dual-ported 0-wait static RAM
One RS-232C serial port
Three RS-422/RS-485 ports
Two 32-pin JEDEC EPROM sockets
Built-in-Test (BIT)

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-65C to +125C
HUMIDITY:	0 - 95% non-condensing
VIBRATION - SINE:	10g / 5 - 2000 Hz
VIBRATION - RANDOM:	0.1g ² / 15 - 2000 Hz
SHOCK:	30g / 11 ms half sine
ALTITUDE:	21 350 m (70 000 feet)

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DY-4 SYSTEMS
PRODUCT: INTELLIGENT SCSI CONTROLLER
PART NO: DMV-719
TYPE: MASS STORAGE
CATEGORY: MIL

FEATURES:

10 MHz 68000 CPU on-board
SCSI ANSI protocol controller
DMA controller (up to 1.5 MB/sec)
256 KB dual-ported RAM
Up to 128 KB EPROM
Programmable interrupts
On-board timers
ROR/RWD Requester modes supported
Built-in-Test (BIT)
All I/O via P2 connector

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-65C to +125C
HUMIDITY:	0 - 95% non-condensing
VIBRATION - SINE:	10g / 5 - 2000 Hz
VIBRATION - RANDOM:	0.1g ² / 15 - 2000 Hz
SHOCK:	30g/11ms half sine
ALTITUDE:	21 350 m (70 000 feet)

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DY-4 SYSTEMS
PRODUCT: BYTE-WIDE MEMORY CARD
PART NO: DMV-536
TYPE: MEMORY
CATEGORY: MIL

FEATURES:

A32:D32 VMEbus slave interface
16 32-pin JEDEC device locations
Programmable VMEbus base address

Supports:

up to 8 MB of SRAM,
up to 8 MB of EEPROM,
up to 16 MB of EPROM.
Built-in-Test (BIT)
On-board EPROM programmability

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-65C to +125C
HUMIDITY:	0 - 95% non-condensing
VIBRATION - SINE:	10g / 5 - 2000 Hz
VIBRATION - RANDOM:	0.1g ² / 15 - 2000 Hz
SHOCK:	30g / 11 ms half sine
ALTITUDE:	21 350 m (70 000 feet)

COMMENTS:

Thermal management by an aluminum plane bonded to a standard VMEbus circuit module. Integral to cooling plane are vibration stiffening channels. Standard wedgelock fasteners for thermal and mechanical connection to the chassis.

VMEbus PRODUCT RECORD

VENDOR: DY-4 SYSTEMS
PRODUCT: POWER SUPPLY UNIT
PART NO: DMV-870
TYPE: POWER SUPPLY
CATEGORY: MIL

FEATURES:

28 VDC input per MIL-STD-704
125 Watt capacity
75% efficiency
Conforms to MIL-STD-461B
Conduction cooled

MIL-SPECS AND MIL-STDs:

MIL-STD-461, Electromagnetic Emission/Susceptibility
MIL-STD-704, Aircraft Electric Power Characteristics
MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-54C to +55C
NON-OPERATING TEMPERATURE:	-62C to +85C
HUMIDITY:	0 - 95% non-condensing
VIBRATION - SINE:	10g / 5 - 2000 Hz
VIBRATION - RANDOM:	0.15g ² / 15- 2000 Hz
SHOCK:	30g/11ms half sine
ALTITUDE:	15 240 m (50 000 feet)

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DY-4 SYSTEMS
PRODUCT: SINGLE BOARD COMPUTER
PART NO: DMV-141
TYPE: SINGLE BOARD COMPUTER
CATEGORY: MIL

FEATURES:

68030 (16 or 20 MHz)
A32:D32 VMEbus interface
32-bit VSB interface
1 MB 0-wait state static RAM
AVICS (VME interface chip set)
BIT (built-in test)
Auto-ID
Two RS-232C serial channels
Three 16-bit timers
Optional 68881 or 68882 FPP

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-65C to +125C
HUMIDITY:	0 - 95% non-condensing
VIBRATION - SINE:	10g / 5 to 2000 Hz
VIBRATION - RANDOM:	0.1g ² / 15 to 2000 Hz
SHOCK:	30g/11ms half sine
ALTITUDE:	21 350 m (70 000 feet)

COMMENTS:

Militarization through a thermal management layer, which also enhances vibration and shock control. Conduction cooled. Identical convection cooled version, compliant with MIL-STD-883C, available.

VMEbus PRODUCT RECORD

VENDOR: DY-4 SYSTEMS
PRODUCT: SINGLE BOARD COMPUTER
PART NO: DMV-154
TYPE: SINGLE BOARD COMPUTER
CATEGORY: MIL

FEATURES:

68020 (16 MHz), optional 68881 FPP
A32:D32 VMEbus interface
1553B interface
512KB 0-wait state static RAM
AVICS (VME interface chip set)
BIT (built-in test)
Auto-ID
Conduction cooled
128 KB EPROM
512 B EEPROM

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-STD-1553, Command Response Multiplex Data Bus
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-65C to +125C
HUMIDITY:	0 - 95% non-condensing
VIBRATION - SINE:	10g / 5 - 2000 Hz
VIBRATION - RANDOM:	0.1g ² / 15 - 2000 Hz
SHOCK:	30g / 11 ms half sine
ALTITUDE:	21 350 m (70 000 feet)

COMMENTS:

Militarization through a thermal management layer,
which also enhances vibration and shock control.
Conduction cooled. Identical convection cooled
version, compliant with MIL-STD-883C, available.

VMEbus PRODUCT RECORD

VENDOR: DY-4 SYSTEMS
PRODUCT: CHASSIS
PART NO: DMV-980
TYPE: CHASSIS
CATEGORY: RUG

FEATURES:

1/2 ATR Short Chassis (ARINC 404A)
6 slots
Forced air cooling
100 watt power supply
Status indicator

MIL-SPECS AND MIL-STDs:

MIL-STD-461, Electromagnetic Emission/Susceptibility
MIL-STD-810, Environmental Test Methods
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +71C
NON-OPERATING TEMPERATURE:	-62C to +125C
HUMIDITY:	0 to 100% condensing
VIBRATION - SINE:	10g 5 to 2000Hz
VIBRATION - RANDOM:	.15g ² /Hz 15 to 2000Hz
SHOCK:	30g for 11ms (half sine)
ALTITUDE:	12192M (40000 feet)

COMMENTS:

Salt Fog (MIL-STD-810C, Method 509.1)
Sand and Dust (MIL-STD-810C, Method 509.1)

VMEbus PRODUCT RECORD

VENDOR: DY-4 SYSTEMS
PRODUCT: SINGLE BOARD COMPUTER
PART NO: DMV-152
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

68020 CPU (20MHz)
Optional 68881 FFP
A16/24/32:D8/16/32 VMEbus Interface
2 RS-232/422/485 serial channels
512KBytes 0-wait state dual ported state RAM
128KBytes EPROM
3 16-Lit timers
AVICS
BIT
Auto-ID

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-65C to +125C
HUMIDITY:	0 to 95% Non-condensing
VIBRATION - SINE:	10g 5 to 2000Hz
VIBRATION - RANDOM:	.1g ² /Hz 15-2000Hz
SHOCK:	30g for 11ms (half sine)
ALTITUDE:	21350m (70000 feet)

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DY-4 SYSTEMS
PRODUCT: VIDEO CAPTURE BOARD
PART NO: DMV-672
TYPE: VIDEO/GRAPHICS
CATEGORY: RUG

FEATURES:

TMS 34061 (10MHz) Video System Controller
RS-170 RGB or monochromatic video
External horiz./vert. sync input via P2 connector
Color resolution 4-bit, Monochrome res. 7-bit
User-programmable Look-Up Tables (4K x 8bits)
Single or continuous frame capture
Max 256KBytes of multiport Video RAM (512x512x8)
A16:D16 slave VMEbus Interface
BIT

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-65C to +165C
HUMIDITY:	0 to 95% Non-condensing
VIBRATION - SINE:	10g 5 to 2000Hz
VIBRATION - RANDOM:	.1g ² /Hz 15 to 2000Hz
SHOCK:	30g for 11ms (half sine)
ALTITUDE:	21350M (70000 feet)

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DY-4 SYSTEMS
PRODUCT: HIGH RESOLUTION GRAPHICS MODULE
PART NO: DMV-772
TYPE: VIDEO/GRAPHICS
CATEGORY: RUG

FEATURES:

20x8x1024x4-bit video RAM (VRAM)
VRAM configurable for double-buffering under software control
Digital video port for overlay of additional image (4bits per pixel)
512 KBytes DRAM
256KBytes EPROM
TMS 34010 Graphics System Processor
256 dis. colors from palette w max 16.8 mil color
60Hz non-interlaced refresh rate
Video output RS-343A compatible
A16:D8/16 Slave VMEbus Interface

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-65C to +165C
HUMIDITY:	0 to 95% Non-condensing
VIBRATION - SINE:	10g 5 to 2000Hz
VIBRATION - RANDOM:	.1g ² /Hz 15 to 2000Hz
SHOCK:	30g for 11ms (half sine)
ALTITUDE:	21350M (70000 feet)

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DYNATEM
PRODUCT: INDUSTRIAL OUTPUT BOARD
PART NO: DIO32
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

Thirty-two relays (110VAC at 300mA, 30VDC at 1AMP,
.5ms switching time)
Jumper selection of normally open or closed
A16:D16 Slave VMEbus Interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-20C to +75C
NON-OPERATING TEMPERATURE:	-55C to +85C
HUMIDITY:	0 to 90% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	
SHOCK:	
ALTITUDE:	

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DYNATEM
PRODUCT: ETHERNET CONTROLLER
PART NO: DLAN
TYPE: LOCAL AREA NETWORK
CATEGORY: RUG

FEATURES:

Fijitsu Etherstar controller chip set
Simultaneous transfer to host and LAN
Automatic retransmission
64KByte SRAM

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	0C to +70C
NON-OPERATING TEMPERATURE:	-25C to +85C
HUMIDITY:	0 to 95%
VIBRATION - SINE:	
VIBRATION - RANDOM:	
SHOCK:	
ALTITUDE:	10000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DYNATEM
PRODUCT: SINGLE BOARD COMPUTER
PART NO: DCPU-30
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

68030 (20MHz) CPU
Optional 68882 coprocessor
Up to 2MByte dual ported SRAM
Up to 2MByte EPROM
3 async serial chans and 1 sync/async serial port
3 8-bit parallel I/O ports
3 16-bit timers
A16/24/32:D8/16/32 Master/Slave/Location Monitor
VMEbus Interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	0 to 90%
VIBRATION - SINE:	
VIBRATION - RANDOM:	
SHOCK:	
ALTITUDE:	10000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: DYNATEM
PRODUCT: SINGLE BOARD COMPUTER
PART NO: DCPU2
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

CMOS 68000 (10,12.5,or 16MHz) CPU
Up to 2MBytes 0-wait dual ported SRAM
Up to 2MBytes ROM or EPROM
2 serial ports
40 programmable parallel lines
3 16-bit timers
A24:D8/16 Master/Slave VMEbus Interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	0 to 90% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	
SHOCK:	
ALTITUDE:	

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: EKF
PRODUCT: PARALLEL INTERFACE W/OPTOCOUPERS
PART NO: 68200-PO
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Parallel port, optically isolated I/O
40 inputs: 5/12/24/48V
40 outputs: 60V/0.5A
16 I/O channels can generate interrupts
80xLED display for I/O
6xLED for board status
A24:D08 Slave VMEbus interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: EKF
PRODUCT: PARALLEL INTERFACE TIMER
PART NO: 68230-PIT
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Parallel port, 2x68230
48 TTL I/O
Timer functions
Several I/O connector options
User wiring area
12xLED display for board status
A24:D08 Slave VMEbus interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: EKF
PRODUCT: ANALOG INTERFACE
PART NO: 68320-ADC12
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

12-bit analog/digital converter
64 single ended or 32 differential channels
programmable 4 stage input amplification
Formats +10V/+-5V/+-10V
A24:D16 Slave VMEbus interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: EKF
PRODUCT: ANALOG INTERFACE
PART NO: 68330-DAC12
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

12-bit digital/analog converter
Voltages optionally +/-10V/+/-5V/+/-2.5V bipolar
or +10V/+5V unipolar
LED display
A24:D16 Slave VMEbus interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: EKF
PRODUCT: POSITION CONTROLLER
PART NO: 68370-POS
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- Local 68020 (16.7 MHz) CPU
- Optional 68881 (16.7 MHz) FPP
- 4 fold axis control
- 4 fold counter/discriminator for the shaft encoder correction
- 4 fold DAC 12-bit +/-10V
- Parallel port optically isolated
- 256 KByte EPROM
- 256 KByte to 1 MByte SRAM with 0-wait states
- Two RS-232 serial ports
- Dual ported RAM VMEbus interface
- A24:D16 Slave VMEbus interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: EKF
PRODUCT: TIMING CONTROLLER
PART NO: 68390-TC
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- 10 programmable 16-bit counters
- Recording of real-time events up to 7 MHz
- 36 LED monitor display for all counters and timers
- Electrically separated I/O optional
- A24:D08 Slave VMEbus interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: EKF
PRODUCT: 16-FOLD SERIAL INTERFACE
PART NO: 68500-SI16
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

16 serial ports:RS-232/RS-423/V.24 and
RS-422/RS-485/V.11
8 Duart 68681, programmable baud rates to 38.4 K
DTE/DCE selection for each port
LED display for each port (Rx/Tx/CTS)
A24:D08 Slave VMEbus interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: EKF
PRODUCT: INTELLIGENT SERIAL INTERFACE
PART NO: 68510-COMCO
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Local 68000 (12.5 MHz) CPU
512 KByte buffer SRAM with 0-wait states
128 KByte EPROM
8 serial interfaces
Dual ported RAM VMEbus interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: EKF
PRODUCT: ETHERNET CONTROLLER
PART NO: 68570-LAN
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

Local 68000 (12.5 MHz) CPU
Ethernet port (15-pin transceiver connector)
Thinwire Ethernet port (BNC connector)
7990 LANCE chip with DMA controller
7992B SIA serial interface adapter
onboard transceiver with DP8392
Two 32-pin EPROM sockets
128 Kbyte/512 KByte local CMOS SRAM
Two RS-232 serial interfaces
A24:D16 Slave VMEbus interface
TCP/IP

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: EKF
PRODUCT: DISK CONTROLLER
PART NO: 68100-DC
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

Local 68000 CPU
SCSI and Floppy Disk Controller interface
Local 512 KByte static RAM
Two RS-232 serial ports
Dual ported RAM VMEbus interface
A24:D16 VMEbus interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: EKF
PRODUCT: MEMORY BOARD
PART NO: 68902-MEM32
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

Up to 3 MByte RAM/EPROM
8/16/32-bit data accessing
3 memory banks, decoding in 16K steps
A32/24:D32/16 Slave VMEbus interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: EKF
PRODUCT: MICRO COMPUTING UNIT
PART NO: 68050-MCU
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68000 (12.5 MHz) CPU
1 or 2 MByte DRAM with 0-wait states
Up to 4 MByte EPROM (4x32-pin sockets)
Two RS-232 serial channels
SCSI controller
Two parallel ports (40-pin)
A24:D16 VMEbus Master interface
4-Level Arbiter, 7-Level Interrupt Handler
Requester options: RWD and ROR

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: EKF
PRODUCT: 32-BIT MICRO COMPUTING UNIT
PART NO: 68060-M32
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68020(16.7 MHz) CPU
68881 (16.7 MHz) FPP
1 or 2 MByte SRAM with 0-wait states
Up to 4 MByte EPROM (4x32-pin sockets)
Two RS-232 serial ports
SCSI controller
A32:D32 VME Master interface
4-Level Arbiter, 7-Level Interrupt Handler
Bus Requester options: RWD, ROR, RN

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: EKF
PRODUCT: 32-BIT MICRO COMPUTING UNIT
PART NO: 68080-U32
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68030 (25/33/50 MHz) CPU
68882 (25/33/50 MHz) FPP
512 KByte local burst mode SRAM
256 KByte or 1 MByte dual ported SRAM
Up to 32 MByte memory via local extension bus
Up to 2 MByte EPROM (4x40-pin sockets, 32-bit organization)
Two RS-232 serial ports
SCSI controller
4-Level Arbiter, 7-Level Interrupt Handler
Requester options: ROW, ROR, ROB, RN, RONR
A32:D32 VMEbus Master/Slave interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: EKF
PRODUCT: COLOR GRAPHICS
PART NO: 68400-AGDC
TYPE: VIDEO/GRAPHICS
CATEGORY: COTS

FEATURES:

Local 68000 (12.5 MHz) CPU
256 KByte EPROM, 128 KByte RAM
Hitachi graphics controller, ACRTC 63484
GMIC 63485 and 2xGVAC 63486 (controller for
memory and video attributes)
Resolution up to 1280x1024, 64 MHz refresh rate
2 MByte display storage
Support for 4 screens, including window
Horizontal, vertical, or smooth scrolling
Horizontal and vertical 1-16 fold zoom
Light pen, mouse, and digitizing tablet via RS-232
4 or 8-bit pixels

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: EKF
PRODUCT: GRAPHICS CONTROLLER FOR LCD
PART NO: 68460-LCD
TYPE: VIDEO/GRAPHICS
CATEGORY: COTS

FEATURES:

For LCD graphics screens up to 400x640 pixels
VG-600 controller module
Operational modes MDA, CGA, and AT&T graphics std
8 grey levels, inversion
Direct write/read to/from display storage
Inverter for negative LCD operating voltages
A24:D08 Slave VMEbus interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ENCORE COMPUTER CORPORATION
PRODUCT: NTDS BOARD
PART NO: GEN 07360
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

NTDS Type A/B
MC 68020 (15MHz) Processor
16 or 32-bit data transfers

MIL-SPECS AND MIL-STDS:

MIL-STD-1397, I/O Interfaces, Standard Digital Data

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

Stated to be MIL-SPEC

VMEbus PRODUCT RECORD

VENDOR: ENCORE COMPUTER CORPORATION
PRODUCT: NTDS BOARD
PART NO: GEN 07361
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

NTDS Type C
MC 68020 (15MHz) Processor
16 or 32-bit transfer

MIL-SPECS AND MIL-STDS:

MIL-STD-1397, I/O Interfaces, Standard Digital Data

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

Stated to be MIL-SPEC

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: CHASSIS
PART NO: CHAS19-xx/xxx
TYPE: CHASSIS
CATEGORY: COTS

FEATURES:

Rack mountable 7U high chassis
5, 9, 12, 20, or 21 slot backplane
Two fans
Power cabling included

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: SERIAL I/O
PART NO: SIO-2 SERIES
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- Six independent, jumper selectable RS-232/422 serial channels
- Six multi-protocol communication controllers
- Asynchronous and synchronous modes
- Full/half duplex, auto-echo, and local loopback
- Software programmable baud rate (110-38.4Kbaud)
- Optional two fiber optic interface links
- All I/O routed through VMEbus P2 connector

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: SERIAL I/O
PART NO: ISIO-1
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

8 channel intelligent serial I/O board
68010 (10 MHz)
128 KByte dual port memory, 0-wait state
Four 68562 DUSCC chips provide synchronous and
asynchronous communications
110 to 38.4 Kbaud
All I/O via P2 connector

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: SERIAL I/O
PART NO: ISIO-2
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

8 channel RS-232/422 serial I/O
68010 (10 MHz)
128 KByte dual port memory
Four 68562 DUSCC chips provide synchronous and
asynchronous communications
1.0 to 38.4 Kbaud
All I/O via P2 connector

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PARALLEL I/O
PART NO: PIO-1
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- Four 8-bit opto-coupled input ports
- Four 8-bit TTL driven output ports
- Two handshake lines per port
- Each I/O port pair driven by a 68230 PIT
- Four 24-bit timers with 5-bit prescalers
- All ports can be paired as 16-bit ports
- All output on P2 connector

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PARALLEL I/O
PART NO: OPIO-1
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- Four 8-bit opto-coupled input ports
- Four 8-bit opto-coupled output ports
- Two opto-coupled handshake lines for each port
- Each I/O port pair driven by a 68230 PIT
- Four 24-bit timers with 5-bit prescalers
- One 68450 DMA controller
- All output on P2 connector

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PARALLEL I/O
PART NO: IPIO-1
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Intelligent high performance parallel I/O board
68000 (10 MHz) CPU
68450 DMA controller
128 KByte dual ported SRAM, 0-wait state
Twelve 16-bit counter/timers
Full VMEbus Slave interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: ETHERNET PROCESSOR
PART NO: ILANC-1
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

68010 (10 MHz)
512 KByte dual ported DRAM
vectored and auto-vectored interrupts
IEEE 802.3 compatible
Optional TCP/IP software/firmware

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: WINCHESTER FLOPPY CONTROLLER
PART NO: WFC-1
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

5 1/4" Winchester and floppy drive controller
Supports up to four floppys and three Winchester
drives

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: WINCHESTER FLOPPY DRIVE
PART NO: MSM-42
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

42 MByte high speed 3 1/2" SCSI Winchester hard
drive and 720 KByte 3 1/2" floppy drive in a
single 2-slot VMEbus card format

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: WINCHESTER FLOPPY DRIVE
PART NO: MSM-84
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

84 MByte high speed 3 1/2" SCSI Winchester hard
drive and 720 KByte 3 1/2" floppy drive in a
single 2-slot VMEbus card format

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: SCSI CONTROLLER
PART NO: ISCSI-1
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

68010 (10 MHz)
128 KByte dual port RAM, 0-wait state
SCSI interface via NCR 5386S controller chip
Floppy interface via WD1772 controller chip
Full VMEbus Slave interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: FLOPPY AND WINCHESTER MODULE
PART NO: WFMOD-xx
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

1 MByte floppy with 20, 50, 80, or 175 MByte
Winchester hard drive

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: MEMORY
PART NO: DRAM-E4M4
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

4 MByte DRAM
65 ns write, 210 ns read (no parity check) or
240 ns read (with parity check)
Byte parity on all memory
Unaligned transfers
Read-Modify-Write
Address increments of 256 Kbits in address range

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: MEMORY
PART NO: DRAM-8 SERIES
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

2, 4, 8, 16, and 32 MByte memory boards with
byte parity
90 ns write, 200 ns read access times

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: MEMORY
PART NO: DRAM-6
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

2 MByte DRAM with byte parity
Full VMEbus Slave interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: MEMORY
PART NO: PR-2
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

RAM/ROM/EPROM/EEPROM memory board
Sixteen 32-pin sockets
Up to 16 MByte EPROM
Up to 8 MByte EEPROM or SRAM
82 ns write, 225 ns read (typical) with 100 ns
memory devices
Two separate memory banks with individual
addressing

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENTOR: FORCE COMPUTERS
PRODUCT: MEMORY
PART NO: SRAM-3 SERIES
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

1024 KByte SRAM dual ported to VMXbus
82 ns write, 224 ns read (typical)
Two separate memory banks with individual
addressing

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: MEMORY
PART NO: SRAM-4
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

1024 KByte SRAM
82 ns write, 224 ns read (typical)
Separate memory banks with individual addressing

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: MEMORY
PART NO: SRAM-5
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

512 KByte high speed SRAM
read access 50 ns
write access 50 ns
36 MByte/second throughput
Full 32-bit VMEbus data and address interface
Supports unaligned transfer and read-modify-write

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: MEMORY
PART NO: SRAM-6
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

2 MByte high speed SRAM
read access 50 ns
write access 50 ns
36 MByte/second throughput
Supports unaligned transfer and read-modify-write

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: MAIN POWER SWITCH
PART NO: PWR-09A
TYPE: POWER SUPPLY
CATEGORY: COTS

FEATURES:

280 Watt switching power supply
50 or 60 Hz, 110 or 220 V-C
VDE and FCC certified
+5V/36A, +12V/6A, -12V/2A
Four slots wide

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: SWITCHING POWER SUPPLY
PART NO: PWR-20
TYPE: POWER SUPPLY
CATEGORY: COTS

FEATURES:

750 Watt switching power supply
+5V/90A, +12V/20A, -12V/5A
VDE certified
3HE/84TE or 3U High by 21 Slots

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-4 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68000 or 68010 (10 or 12.5 MHz)
68450 DMA at 8 MHz
RS-232 serial port via 68561 MPCC chip with 110 to
38.4 Kbaud
Two 8-bit parallel ports w/handshake (68230 PIT)
128 Kbit 0-wait state SRAM
Eight EPROM/SRAM sockets for up to 512 Kbit
program or additional 32 Kbit SRAM
System Controller with 4 level arbiter and 7 level
interrupt handler
Optional floppy disk controller interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-5 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68000 and 68881 (16.7 MHz)
68450 DMA controller
Two RS-232 serial ports (68561 MPCC)
128 Kbit 0-wait state SRAM
Four EPROM sockets for up to 500 KByte program
storage or extra 128 Kbit SRAM
VMX Master interface on P2
Single level VMEbus arbiter
7 level interrupt handler

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS.

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-6 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68000 or 68010 (8 or 12.5 MHz)
68881 (12.5 MHz)
512 KByte DRAM; 0-wait state at 8 MHz, 1-wait
state at 12.5 MHz
Four EPROM sockets
Three RS-232 serial ports (110 to 19.2 Kbaud)
Two 8-bit parallel ports on P2
One 24-bit timer
Single level system controller
7 level interrupt handler

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-21 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68020 and 68881 at 12.5/16.7/20/25 MHz
1 MByte SRAM
4 MByte EPROM
Two RS-232 serial ports
VSB interface
RESET/HALT/CACHE and TEST function switches
Status LEDs

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-22 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68020 and 68882 FPCP at 16.7 or 20 MHz
32 KByte local SRAM
1 MByte synchronous dual port SRAM
Up to 4 MByte EPROM
Two RS-232 serial ports (one can be RS-422)
VMX secondary bus interface on P2
Two 24-bit timers, Three 8-bit timers
RESET/ABORT/CACHE enable switches and RUN/HALT
plus Status LEDs on front panel
System controller and Master/Slave interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-23 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68020 and 68882 FPCP at 12.5/16.7/25 MHz
1 MByte SRAM
Four EPROM sockets for 28- or 32-pin devices
Four RS-232 serial ports
SCSI and floppy disk interfaces
Two 24-bit timers, Three 8-bit timers
System controller and Master/Slave interface
RESET/ABORT/CACHE enable switches
Status LEDs on front panel

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-26 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68020 and 68882 FPCP at 16.7 or 20 MHz
32 KByte local SRAM
1 or 4 MByte dual port DRAM
Up to 4 MByte EPROM
Four RS-232 serial ports (Three can be RS-422)
SCSI and SA460 Floppy Disk interface
Two 24-bit timers; Three 8-bit timers
System Controller; Master/Slave interface
RESET/ABORT/CACHE enable switches and RUN/HALT
plus Status LEDs on front panel

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-27 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68020 and 68882 FPCP at 12.5/16.7/25 MHz
1 MByte SRAM
Two EPROM sockets for 28- or 32-pin devices
Three RS-232 serial channels
SCSI interface
40 parallel I/O signals on P2
Optional Ethernet interface with 64 KByte buffer
Single level arbiter
7 level interrupt handler
slot 1 functions

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-29 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68020 and 68882 at 12.5/16.7/25/30 MHz
1 MByte SRAM
4 MByte EPROM
Two RS-232 serial ports
VSB interface
RESET/HALT/CACHE and TEST function switches
Status LEDs

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-30 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68030 and 68882 FPCP at 20 or 25 MHz
32 KByte local SRAM
4 MByte dual port DRAM
Up to 4 MByte system EPROM
Four RS-232 serial ports
SCSI and SA460 Floppy Disk interface
Two 24-bit timers; one 8-bit timer
System Controller; Master/Slave interface
RESET/ABORT/CACHE enable switches and RUN/HALT
plus Status LEDs on front panel

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-31 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68030 and 68882 FPCP at 16.7 or 25 MHZz
32 KByte local SRAM
1 MByte synchronous dual port SRAM
Up to 4 MByte system EPROM
Two RS-232 serial ports (one can be RS-422)
VSB secondary bus on P2
Two 24-bit timers
RESET/ABORT/CACHE enable switches and RUN/HALT
plus Status LEDs on front panel

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-32 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68030 and 68882 FPCP at 16.7/20/25/30 MHz
1 MByte SRAM
4 MByte EPROM
Two RS-232 serial ports
VSB interface
RESET/HALT/CACHE and TEST function switches
Status LEDs

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-33 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68030 CPU at 16.7 or 25 MHz
Optional 68882 Floating Point Co-Processor
1 MByte dual-gated DRAM
Up to 2 MByte EPROM
Two multiprotocol serial I/O ports
Two 24-bit and one 8-bit timers
Four level arbiter
Slot 1 functions
8-bit parallel I/O port
32-bit DMA controller

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-37 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68030 and 68882 FPCP at 16.7 or 25 MHz
32 KByte local SRAM
1 or 4 MByte DRAM
Two EPROM sockets for 28- or 32-pin devices
Thre RS-232 serial ports
SCSI and Floppy Disk interface
One 24-bit timer; Four 8-bit timers
Optional Ethernet interface with 64 KByte buffer
Slot 1 functions

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-40 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68040 CPU at 25/33 MHz
4/16 MByte shared DRAM with burst mode support
32-bit DMA
2 MByte EPROM
128 KByte SRAM
Four RS-232/422/485 serial channels
8-bit parallel interface
Two 24-bit timers, one 8-bit timer
System Controller

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-41 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68040 CPU at 25/33 MHz
4 MByte shared SRAM
32-bit DMA
2 MByte system EPROM
Four RS-232/422/485 serial channels
8-bit parallel interface
Two 24-bit timers; one 8-bit timer
System controller

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-80 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

M88100 RISC CPU at 25 MHz
M88200 16 KByte Instruction CMMU
M88200 16 Kbyte Data CMMU
4/16 MByte dual gated high speed DRAM
4x32-bit EPROM sockets
SCSI interface
Two RS-232/422 serial channels
2 KByte static RAM
One 24-bit, two 16-bit counter/timers
Full 32-bit VMEbus Master interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-81 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

M88100 RISC CPU at 25 MHz
M88200 16 KByte Instruction CMMU
M88200 16 KByte Data CMMU
4/16 MByte dual gated high speed DRAM
4x32-bit EPROM sockets
Two RS-232/422 serial channels
2 KByte static RAM
One 24-bit, Two 16-bit counter/timers
8-bit parallel I/O
VSB interface
Full 32-bit VMEbus Master interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: PROCESSOR
PART NO: CPU-386 SERIES
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

80386 (optional 80387 numeric coprocessor), 16 MHz
2 or 8 Mbit 0-wait state DRAM
4 EPROM/EEPROM sockets for up to 512 Kbits program
Three RS-232 serial ports
System controller

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: ADVANCED SYSTEM CONTROL UNIT
PART NO: ASCU-1/2
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

Four level Priority arbiter, or Round Robin, or
Priority (Level 3) and Round Robin (Level 2, 1,
and 0)
LEDs show current Master level
Serial I/O for RS-232/422
Centronics parallel I/O
System Clock Driver generates 16 MHz clock
Bus Timer
Eight software controlled interrupts

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORCE COMPUTERS
PRODUCT: GRAPHICS CONTROLLER
PART NO: AGC-2
TYPE: VIDEO/GRAPHICS
CATEGORY: COTS

FEATURES:

- 63484 graphic controller chip
- Resolution to 1160 x 870 x 4 (50 Hz)
- 16 out of 64K colors
- RGB and composite video outputs
- 1 MByte video memory
- Light pen interface
- GKS interface available
- 23 draw commands, zoom, scroll, windows, split screen

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORMATION
PRODUCT: CHASSIS
PART NO: FV9500
TYPE: CHASSIS
CATEGORY: COTS

FEATURES:

19 inch rack
21 slots
J1 and J2 backplanes
multi-output power supply (+5V/150A,+12V/6A,
-12V/5A)
Three fans
Power supply and fan serviceable from front

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORMATION
PRODUCT: GENERAL PURPOSE PARALLEL I/O
PART NO: FV5510
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

68010 (12 MHz)
Four parallel ports (2 input, 2 output)
8051 device controller
64 KByte shared RAM
128 KBytes EPROM
Master/Slave capability
A24:D16 VMEbus interface
RS-485 external drivers
RS-232 serial port for maintenance

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORMATION
PRODUCT: SERIAL I/O
PART NO: FV5520
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- Eight serial ports (8 bits plus parity)
- 68010 (12 MHz)
- 8051 device controller
- 64 KBytes shared RAM
- 128 KBytes EPROM
- Master/Slave capability
- A24:D16 VMEbus interface
- RS-485 external drivers
- RS-232 serial port for maintenance

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORMATION
PRODUCT: TOKEN RING ADAPTER
PART NO: FV1600
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

Texas Instruments chip set running at 4/16 Mbps
Up to 1 MByte 0-wait state ring memory
Up to 128 KByte dual ported static RAM
Compliant with IEEE 802.5, 802.2, and IBM Token
Ring

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORMATION
PRODUCT: WIDE AREA COMMUNICATION CONTROLLER
PART NO: FV5300
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

Motorola 68020
1, 2, or 4 Kbyte 0-wait state memory
Two to eight high speed ports with DMA
Handles bit-synchronous protocols up to 7 Mbps
Executes X.25 level 2 (LAPB) protocol in hardware
Software: X.25 (Level 2 & 3), HDLC, DDN, ADCCP

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: FORMATION
PRODUCT: FDDI CONTROLLER
PART NO: FV1000
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

AMD FDDI chip set and AMD 29000 RISC processor
Supports DMA to host
256 KBytes static ring memory with 40 ns access
2 to 8 MBytes DRAM with 40 ns access
Support for concentrator
Occupies two adjacent 6U slots

Planned capabilities:

Support for TCP/IP and XTP
UNIX driver

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: GET ENGINEERING
PRODUCT: NTDS FAST/SLOW INTERFACE ADAPTER
PART NO: 10042301
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

68000 (10 MHz) CPU
128 KByte EPROM
128 KByte dual port RAM
68450 DMAC
One RS-232 serial port
Computer, peripheral, and intercomputer modes
Full duplex 16 or 32 bit transfers
A24:D16 VMEbus interface

MIL-SPECS AND MIL-STDs:**ENVIRONMENTAL CHARACTERISTICS:**

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: GET ENGINEERING
PRODUCT: NTDS ANEW/TYPE H INTERFACE ADAPTER
PART NO: 10042401
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

68000 (10 MHz) CPU
128 KByte EPROM
128 KByte dual port RAM
68450 DMAC
One RS-232 serial port
Computer, peripheral, and intercomputer modes
Full duplex 16 or 32 bit transfers
A24:D16 VMEbus interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: GET ENGINEERING
PRODUCT: NTDS SERIAL TYPE D INTERFACE
PART NO: 10042501
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

68000 (10 MHz) CPU
128 KByte EPROM
128 KByte dual port RAM
68450 DMAC
Computer, peripheral, and intercomputer modes
Full duplex 16 or 32 bit transfers
A24:D16 VMEbus interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: GET ENGINEERING
PRODUCT: NTDS LOW LEVEL SERIAL TYPE E
PART NO: 10042601
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

68000 (10 MHz) CPU
128 KByte EPROM
128 KByte dual port RAM
68450 DMAC
Computer, peripheral, and intercomputer modes
Full duplex 16 or 32 bit transfers
A24:D16 VMEbus interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: GET ENGINEERING
PRODUCT: STANAG 4156 INTERFACE ADAPTER
PART NO: 10042901
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

68000 (10 MHz) CPU
128 KByte EPROM
128 KByte dual port RAM
68450 DMAC

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: GOULD ELECTRONICS
PRODUCT: INTELLIGENT INPUT/OUTPUT MODULE
PART NO: IOPV
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

4 RS-232 serial channels
1 SCSI port (Initiator or Target)
MC68020 (16.7MHz) Processor
64KByte 55ns Static RAM
Unaligned Transfer capability
Read, Modify, Write supported
A16/24/32:D8/16/24/32 Slave VMEbus Interface

MIL-SPECS AND MIL-STDs:

MIL-STD-704, Aircraft Electric Power Characteristics
MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-54C to +71C
NON-OPERATING TEMPERATURE:	-62C to +71C
HUMIDITY:	MIL-STD-810, Method 507.2
VIBRATION - SINE:	
VIBRATION - RANDOM:	MIL-E-16400G/MIL-E-5400T
SHOCK:	MIL-E-5400T
ALTITUDE:	MIL-E-5400T/MIL-E-4158F

COMMENTS:

Sand and Dust-MIL-STD-810C
Fungus-MIL-STD-810C
Salt Spray-MIL-STD-810C

VMEbus PRODUCT RECORD

VENDOR: GOULD ELECTRONICS
PRODUCT: DRAM MEMORY MODULE
PART NO: M4V
TYPE: MEMORY
CATEGORY: RUG

FEATURES:

4MByte CMOS 120ns Dynamic RAM
Detects and corrects all single bit errors
Detects all double and some triple bit errors
A16/24:D8/16/24/32 Slave VMEbus Interface
Unaligned Transfer capability
Read, Modify, Write supported

MIL-SPECS AND MIL-STDs:

MIL-STD-704, Aircraft Electric Power Characteristics
MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-54C to +71C
NON-OPERATING TEMPERATURE:	-62C to +71C
HUMIDITY:	MIL-STD-810, Method 507.2
VIBRATION - SINE:	
VIBRATION - RANDOM:	MIL-E-16400G/MIL-E-5400T
SHOCK:	MIL-E-5400T
ALTITUDE:	MIL-E-5400T, Class 1B

COMMENTS:

Sand and Dust-MIL-STD-810C
Fungus-MIL-STD-810C
Salt Spray-MIL-STD-810C

VMEbus PRODUCT RECORD

VENDOR: GOULD ELECTRONICS
PRODUCT: TRIPLE MEMORY MODULE
PART NO: TMV
TYPE: MEMORY
CATEGORY: RUG

FEATURES:

Two independent memory banks
Each bank can contain EPROM, EEPROM or static RAM
A24:D8/16/32 Slave VMEbus Interface
Max 1024KByte EPROM
Max 512KByte EEPROM
Max to 512KByte static RAM

MIL-SPECS AND MIL-STDs:

MIL-STD-704, Aircraft Electric Power Characteristics
MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-54C to +71C
NON-OPERATING TEMPERATURE:	-62C to +71C
HUMIDITY:	MIL-STD-810, Method 507.2
VIBRATION - SINE:	
VIBRATION - RANDOM:	MIL-E-16400G, Type 1
SHOCK:	MIL-E-5400T
ALTITUDE:	MIL-E-5400T, Class 1B

COMMENTS:

Sand and Dust-MIL-STD-810C
Fungus-MIL-STD-810C
Salt Spray-MIL-STD-810C

VMEbus PRODUCT RECORD

VENDOR: GOULD ELECTRONICS
PRODUCT: DRAM MEMORY MODULE
PART NO: M4V
TYPE: MEMORY
CATEGORY: RUG

FEATURES:

4 MByte CMOS 120ns Dynamic RAM
Detects and corrects all single bit errors
Detects all double and some triple bit errors
A16/24:D8/16/24/32 Slave VMEbus Interface
Unaligned Transfer capability
Read, Modify, write supported

MIL-SPECS AND MIL-STDs:

MIL-STD-704, Aircraft Electric Power Characteristics
MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-54C to +71C
NON-OPERATING TEMPERATURE:	-62C to +71C
HUMIDITY:	MIL-STD-810, Method 507.2
VIBRATION - SINE:	
VIBRATION - RANDOM:	MIL-E-16400G Type
SHOCK:	MIL-E-54000T Class 1B
ALTITUDE:	MIL-E-5400T, Class 1B

COMMENTS:

Sand and Dust-MIL-STD-810C
Fungus-MIL-STD-810C
Salt Spray-MIL-STD-810C

VMEbus PRODUCT RECORD

VENDOR: GOULD ELECTRONICS
PRODUCT: CENTRAL PROCESSING UNIT
PART NO: MP682V
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

MC68020 (16.7MHz) CPU
MC 68881 Floating Point Coprocessor
A16/24:D8/16/32 Master VMEbus Interface
16KByte 0-wait state cache memory
512 Bytes entry vector FIFO
16KByte 0-wait state static RAM
268KByte EPROM

MIL-SPECS AND MIL-STDs:

MIL-STD-704, Aircraft Electric Power Characteristics
MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-54C to +71C
NON-OPERATING TEMPERATURE:	-62C to +71C
HUMIDITY:	MIL-STD-810, Meth. 507.2
VIBRATION - SINE:	
VIBRATION - RANDOM:	
SHOCK:	MIL-E-5400T
ALTITUDE:	MIL-E-5400T, Class 1B

COMMENTS:

Sand and Dust-MIL-STD-810C
Fungus-MIL-STD-810C
Salt spray-MIL-STD-810C

VMEbus PRODUCT RECORD

VENDOR: GRAPHIC STRATEGIES
PRODUCT: COLORGRAPHIC DISPLAY CONTROLLER
PART NO: VGME-640
TYPE: VIDEO/GRAPHICS
CATEGORY: COTS

FEATURES:

NEC-7220 based
640x480x4 bits
Three independent pages of refresh memory
User programmable color look-up table for 16
colors out of a palette of 64
Analog output
800,000 pixels per second drawing speed
Available in either 60 Hz non-interlaced or
30 Hz interlaced
Fully supported Graphic Primitive Support package

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: GRAPHIC STRATEGIES
PRODUCT: COLORGRAPHICS DISPLAY CONTROLLER
PART NO: VGME-512
TYPE: VIDEO/GRAPHICS
CATEGORY: COTS

FEATURES:

NEC-7220 based
512 x 512 x 4 bits
Analog or TTL output
800,000 pixels per second drawing speed
Either 60 Hz non-interlaced or 30 Hz interlaced
Fully supported Graphic Primitive Support package

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: GRAPHIC STRATEGIES
PRODUCT: COLORGRAPHIC DISPLAY CONTROLLER
PART NO: VGME-1024
TYPE: VIDEO/GRAPHICS
CATEGORY: COTS

FEATURES:

NEC-7220 based
1024 x 1024 x 4 bits
User programmable color look-up table for 16
colors out of a palette of 64 colors
1,200,000 pixels per second drawing speed
Analog output
Fully supported Graphic Primitive Support package

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: GRAPHIC STRATEGIES
PRODUCT: COLORGRAPHIC DISPLAY CONTROLLER
PART NO: VGME-640B
TYPE: VIDEO/GRAPHICS
CATEGORY: COTS

FEATURES:

- Hitachi 63484 based
- Resolution ranges from 512 x 512 to 1024 x 1024
x 8 bits
- 512 KByte or 1 MByte dual ported video memory
- User programmable color look-up table for 256
displayable colors out of a palette of 16.7
million colors
- 1,300,000 pixels per second drawing speed
- Analog output
- Fully supported GPS package

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: GRAPHIC STRATEGIES
PRODUCT: COLORGRAPHIC DISPLAY CONTROLLER
PART NO: VGME-34010
TYPE: VIDEO/GRAPHICS
CATEGORY: COTS

FEATURES:

Texas Instruments 34010 GSP based
6 million pixels per second drawing speed
Resolution up to 1280 x 1024 at 60 Hz
2 MByte display memory
2 MByte local memory
8 bit planes for 256 colors from a 16.7 million
color palette
RS-343A or RS-170 compatible output
Two RS-232 serial ports
Full vectored interrupts supported
Local expansion bus
GPS object code available

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ILC DATA DEVICE CORPORATION
PRODUCT: 1553 CHIP SET
PART NO:
TYPE: CHIP SET
CATEGORY: RUG

FEATURES:

MIL-SPECS AND MIL-STDs:

MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-STD-1553, Command Response Multiplex Data Bus

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: INTERPHASE CORPORATION
PRODUCT: ETHERNET CONTROLLER
PART NO: V/ETHERNET 3207
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

256 KByte dual ported VMEbus accessible fast RAM
Configurable transmit and receive buffer rings
Software programmable interrupt levels (1-7)

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: INTERPHASE CORPORATION
PRODUCT: ETHERNET 32-BIT CONTROLLER
PART NO: V/ETHERNET 4207
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

Ethernet 32-bit Protocol Platform Controller
68020 processor can execute high level protocol
software on the controller
Optional onboard TCP/IP and SUN NFS protocols
Simultaneous Ethernet and VMEbus transfers
BUS-packet interface for 30 MByte/second VMEbus
transfer rate
Real-time executive in EPROM
Command software interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: INTERPHASE CORPORATION
PRODUCT: TOKEN RING CONTROLLER
PART NO: V/TOKEN-RING
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

4 or 16 Mbps IEEE 802.5 Token Ring Controller
68020 processor with 1 MByte memory
Two 32-bit wide RAM arrays (one for processor, one
for communications buffer)
BUS-packet interface for 30 MB/s VMEbus transfer
rate
Command software interface
Simultaneous token ring and VMEbus transfers

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: INTERPHASE CORPORATION
PRODUCT: FDDI CONTROLLER
PART NO: V/FDDI 3211
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

Fully compliant with FDDI specification and
SAFENET II specification
Based on AMD Supernet chipset
Supports both single and dual attachment stations

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: INTERPHASE CORPORATION
PRODUCT: FDDI CONTROLLER
PART NO: V/FDDI 4211
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

Fully compatible with ANSI FDDI specification
High performance RISC-based
AM29000 processor
Supports:
 Single or dual attachment stations
 Single or dual MAC
Onboard SMT processing
1 MByte communications buffer

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: INTERPHASE CORPORATION
PRODUCT: SMD DISK CONTROLLER
PART NO: VSMD 4200
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

Exclusive BUS-packet interface, permits DMA data rates up to 30 MBytes/second
Virtual buffer architecture with 68000 processor
Supports two SMD or extended SMD disk drives with four drive expander available
UNIX-optimized intelligent caching
Zero latency reads and writes
Disk data rates up to 24 MBytes/second
Onboard error correction (32 or 48-bit ECC)
Programmable interrupt levels (1-7)
Selectable bus priority (0-3)

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: INTERPHASE CORPORATION
PRODUCT: ESDI DISC CONTROLLER
PART NO: V/ESDI 4201
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

- Optional SCSI port
- Supports four ESDI drives at data rates up to 25 Mbits/second
- BUS-packet interface permits DMA data rates up to 30 MBytes per second
- Virtual buffer architecture with 68000 processor
- UNIX-optimized intelligent caching
- Zero latency reads and writes
- Onboard error correction (32 or 48-bit ECC)
- Software programmable interrupt levels (1-7)
- Selectable bus priority (0-3)

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: INTERPHASE CORPORATION
PRODUCT: HALF INCH TAPE CONTROLLER
PART NO: V/TAPE 3209
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

Supports 8 half-inch 9-track tape drives at speeds
up to 200 ips
800/1600/3200/ and 6250 bpi drives with NRZ, PE,
or GCR encoding
68000 processor
32-bit wide internal architecture
128 KByte onboard buffer
Automatic error recovery
Self diagnostics
Software programmable interrupt levels (1-7)
Selectable bus priority (0-3)

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: INTERPHASE CORPORATION
PRODUCT: SCSI HOST ADAPTER
PART NO: V/SCSI 4210
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

BUS-packet interface provides DMA data rates up to
30 MBytes per second
Two high speed SCSI ports (5 MB/s synchronous and
1.5 MB/s asynchronous)
Full support of initiator/target modes
Virtual buffer architecture with 68000 processor
Common Command Set (CCS) and Disconnect/Reconnect
128 KBytes cache buffer

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: JANZ
PRODUCT: PARALLEL INPUT/OUTPUT
PART NO: VPIO-80
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

32 opto-isolated input or outputs (configurable)
with upto 70V, 0.6A open collector
48 TTL inputs or outputs with 48 mA open collector
Up to 10 counter/timers
vector programmable interrupts

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: JANZ
PRODUCT: PARALLEL INPUT
PART NO: VDIN-32
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

32 channel parallel input
Inputs are opto-isolated and potential-free
Input voltage range: 5V to 100V
LED state display
Counter/timer with trigger/gate activation
Interrupt by pattern recognition logic

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: JANZ
PRODUCT: PARALLEL INPUT/OUTPUT
PART NO: VDOT-32
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

32 channel parallel I/O
opto-isolated inputs/outputs with 24V/1A
Short circuit and overheating protection
Status display and simulation socket for each
input/output
Eachh 8-bit group usable as input or output
Voltage ranges: 5V, 12V, 24V
Counter/timer with trigger/gate activation
Interrupt by pattern recognition logic

MIL-SPECS AND MIL-STDS:**ENVIRONMENTAL CHARACTERISTICS:**

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: JANZ
PRODUCT: SERIAL INPUT/OUTPUT
PART NO: VSIO-D8
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

8 channel independent serial I/O
Configurable for RS-232 or 20mA (current loop)
opto-isolation from potential at 20mA
Signals for modem control
Full interruptable with four independent vectors

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: JANZ
PRODUCT: ANALOG/DIGITAL CONVERTER
PART NO: VAN-8
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- 8 channels
- 12-bit resolution
- conversion time: 3 us for all channels
- Configurable for different input voltages
- Sequencer option available for data recording with
 - 128 KByte FIFO and trigger capabilities by 128
 - programmable digital window comparators

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: JANZ
PRODUCT: PRECISION DIGITAL/ANALOG CONVERTER
PART NO: VDA16-D2
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- 16-bit resolution and accuracy (18-bit DAC)
- 17-bit monotone
- One or two independent channels
- 200 KHz update rate
- High precision OP output with filter
- Optional line drivers up to 10 Watts
- Automatic signal generation by onboard ring-memory

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: JANZ
PRODUCT: ETHERNET NODE PROCESSOR
PART NO: CMC-130
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

FxP architecture
68020 (20 MHz)
512 KByte RAM

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: JANZ
PRODUCT: FDDI BOARD
PART NO: CMC-1056
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

Complete FDDI station management software
VMEbus Master mode transfer rate up to 35 MByte/s
Fxp architecture
Am29000 (25 MHz) RISC processor

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: JANZ
PRODUCT: SCSI ADAPTER
PART NO: VARB-D8
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

SCSI adapter with DMA
33C93 controller
32-bit address
Vectored VMEbus interrupt
SCSI interface on front panel and P2

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: JANZ
PRODUCT: RAM/EPROM BOARD
PART NO: VMEM-16
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

Static RAM/EPROM with capacity of 16 MByte RAM or
1 MByte RAM/EPROM mixed
140 ns access time
battery backup for min 500 hours
Low current

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: JANZ
PRODUCT: SYSTEM CONTROLLER
PART NO: VARB-D4
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

Power-on reset
Generates power-fail signals
Generates 16 MHz clock
Bus arbitration (RR and FP)
Generates vector interrupts in programmable
intervals
Time-out signals (BERR or DTACK)

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: JANZ
PRODUCT: CENTRAL PROCESSING UNIT
PART NO: VNS-16
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

NS32016 CPU (10 MHz)
Complete NS32000 chip set with MMU, TCU, FPU, and
ICU
Demand-paged virtual memory management
Up to 1 MByte of battery-buffered CMOS RAM
Up to 256 KByte EPROM
Tri-port memory
Onboard Arbiter

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: KWS
PRODUCT: PARALLEL INPUT/OUTPUT MODULE
PART NO: VME PIO
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- Opto-isolated
- 16 bits input/16 bits output with handshake
- TTL compatible, buffered, 20 mA
- 16 bits input with signal conditioning
- 16 bits output with short circuit detection and automatic restart
- 100 mA load per bit

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

For 24V I/O, two piggyback modules are available

VMEbus PRODUCT RECORD

VENDOR: KWS
PRODUCT: INTELLIGENT SERIAL INTERFACE
PART NO: VME ISI
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Four RS-232 interfaces
68070 CPU
DMA
128 KByte buffer memory

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: KWS
PRODUCT: A/D AND D/A CONVERTER
PART NO: VME ADDA
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

8/16 analog input channels (100 KHz conversion rate)
Two analog output channels
12-bit resolution
opto-isolated
Input gain x1 or x10 software selectable
Precision resistors for current measurement 0-20mA

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: KWS
PRODUCT: MEMORY EXPANSION
PART NO: VME FPR
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

Optional 68881 (16 MHz) Floating Point Coprocessor
2 MByte DRAM

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

Use with 68000 or 68070 boards

VMEbus PRODUCT RECORD

VENDOR: KWS
PRODUCT: SRAM MODULE
PART NO: VME SYSCON
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

Slot 1 Arbiter (PRI/SGL)
Eight sockets (32-pin) for SRAM and/or EPROM
Up to 1 MByte memory
Two RS-232 20 mA isolated interfaces
Centronics interface
Keyboard interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: KWS
PRODUCT: DRAM MEMORY MODULE
PART NO: MRAM-8
TYPE: MEMORY
CATEGORY: COTS

FEATURES:
2 to 8 MByte DRAM

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:
OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:
Use with VME CPU2

VMEbus PRODUCT RECORD

VENDOR: KWS
PRODUCT: EPROM MEMORY BOARD
PART NO: VME PROM
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

256 KByte EPROM
Socket for SRAM chip cards (256 KByte)

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: KWS
PRODUCT: SINGLE BOARD MICROCOMPUTER
PART NO: VME CPU1
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68000 (12 MHz) CPU
256 KByte dual ported SRAM
256 KByte EPROM
Two serial ports
16-bit parallel interface
VME Master/Slave
SGL Arbiter

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: KWS
PRODUCT: 32-BIT PROCESSOR BOARD
PART NO: VME CPU2
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68030 (25 MHz) CPU
68882 FPU
2 MByte dual ported DRAM
128 KByte EPROM

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: KWS
PRODUCT: SINGLE BOARD MICROCOMPUTER
PART NO: VME IMSC
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68070 (10 MHz) CPU with MMU and DMA
Up to 512 KByte dual ported SRAM and 256 KByte
EPROM
SCSI interface
Floppy disk controller
RS-232 interface
SGL Arbiter

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: KWS
PRODUCT: STAND ALONE MODULE
PART NO: VME SAM/20
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

Functions as Slot 1 device
68020 CPU
68881 FPU
4 MByte dynamic memory
512 KByte static memory with battery backup
Serial and parallel interfaces
SCSI bus and Floppy disk controller
Color graphics with 1024 x 1024 x 8 resolution
32-bit local bus system
Optional built-in Floppy and Hard Disk drives

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: KWS
PRODUCT: COLOR GRAPHICS CONTROLLER
PART NO: VME GRAF1
TYPE: VIDEO/GRAPHICS
CATEGORY: COTS

FEATURES:

640 x 400 resolution
4 bits per pixel
Look-Up Table
Separate ASCII output controller
Character sets in EPROM

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

Designed for applications in process control

VMEbus PRODUCT RECORD

VENDOR: KWS
PRODUCT: COLOR GRAPHICS CONTROLLER
PART NO: VME GRAF2
TYPE: VIDEO/GRAPHICS
CATEGORY: COTS

FEATURES:

Up to 1024 x 1024 resolution
8 bits per pixel
Color LUT
Option: 68020 CPU with 1 or 4 MBytes memory

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: KWS
PRODUCT: LCD CONTROLLER
PART NO: MLCD
TYPE: VIDEO/GRAPHICS
CATEGORY: COTS

FEATURES:

640 x 480 resolution
1 bit per pixel

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

Use with VME CPU2

VMEbus PRODUCT RECORD

VENDOR: LOCKHEED SANDERS INC
PRODUCT: PROCESSOR BOARD
PART NO: 20M02/04/08/16
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

R3000/3010 Processor (20MIPS sustained, up to
12.5M FLOPS peak)
32KByte or 128KByte cache memory
2 to 16MByte main memory

MIL-SPECS AND MIL-STDs:

MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: LORAL
PRODUCT: CHASSIS
PART NO: TRILOBYTE IV-i
TYPE: CHASSIS
CATEGORY: RUG

FEATURES:

600 watt Power Supply
70% Conversion efficiency (minimum)
10 standard 6U VME slots
Shock/Vibration Isolated Drive Platform for up to
4 standard 5.25 inch drives
Optional removable drive unit
TEMPEST option

MIL-SPECS AND MIL-STDs:

MIL-STD-461, Electromagnetic Emission/Susceptibility
MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	0C to +60C
NON-OPERATING TEMPERATURE:	-33C to +71C
HUMIDITY:	5 to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	4.5g rms 5-2000Hz
SHOCK:	25g 11ms
ALTITUDE:	12000 feet

COMMENTS:

Sand and Dust: MIL-STD-810D, Method 510.2

VMEbus PRODUCT RECORD

VENDOR: LORAL
PRODUCT: RUGGED PROCESSOR CHASSIS
PART NO: TRILOBYTE 4300
TYPE: CHASSIS
CATEGORY: RUG

FEATURES:

750 watt Power Supply, 80% conversion efficiency
(min)(150 watt modules)
20 standard 6U VME slots
TEMPEST option

MIL-SPECS AND MIL-STDs:

MIL-STD-461, Electromagnetic Emission/Susceptibility
MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-20C to +65C
NON-OPERATING TEMPERATURE:	-33C to +71C
HUMIDITY:	5 to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	4g rms 5 to 2000Hz
SHOCK:	25g 11ms
ALTITUDE:	18000 feet

COMMENTS:

Sand and Dust: MIL-STD-810D, Method 510.2

VMEbus PRODUCT RECORD

VENDOR: LORAL
PRODUCT: CHASSIS
PART NO: TRILOBYTE 7000
TYPE: CHASSIS
CATEGORY: RUG

FEATURES:

Processor and Disk/Tape Chassis
900 watt power supply
80% conversion efficiency (minimum)
20 standard 6U VME slots
Shock/Vibration Isolated Drive Platform for up to
4 standard 5.25 inch drives
Optional removable drive unit
TEMPEST option

MIL-SPECS AND MIL-STDs:

MIL-STD-461, Electromagnetic Emission/Susceptibility
MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-20C to +65C
NON-OPERATING TEMPERATURE:	-33C to +71C
HUMIDITY:	5 to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	4g rms 15 to 2000Hz
SHOCK:	25g 11ms
ALTITUDE:	18000 feet

COMMENTS:

Sand and Dust: MIL-STD-810D, Method 510.2

VMEbus PRODUCT RECORD

VENDOR: LORAL
PRODUCT: RUGGED PROCESSOR CHASSIS
PART NO: TRILOBYTE 9000S
TYPE: CHASSIS
CATEGORY: RUG

FEATURES:

550 watt power sup. 80% conversion efficiency(min)
8 standard 9U VME slots (card carrier 6U boards)
TEMPEST Option

MIL-SPECS AND MIL-STDs:

MIL-STD-461, Electromagnetic Emission/Susceptibility
MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	0C to +65C
NON-OPERATING TEMPERATURE:	-33C to +71C
HUMIDITY:	5 to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	4g rms 5 to 2000Hz
SHOCK:	25g 11ms
ALTITUDE:	18000 feet

COMMENTS:

Sand and Dust: MIL-STD-810D, Method 510.2

VMEbus PRODUCT RECORD

VENDOR: LORAL
PRODUCT: RUGGED PROCESSOR CHASSIS
PART NO: TRILOBYTE 9000
TYPE: CHASSIS
CATEGORY: RUG

FEATURES:

Dual 750 watt power sup. (conversion eff. 80% min.)
16 standard 9U VME slots (card carrier 6U boards)
TEMPEST Option

MIL-SPECS AND MIL-STDs:

MIL-STD-461, Electromagnetic Emission/Susceptibility
MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-20C to +65C
NON-OPERATING TEMPERATURE:	-33C to +71C
HUMIDITY:	5 to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	4g rms 5 to 2000Hz
SHOCK:	25g 11ms
ALTITUDE:	18000 feet

COMMENTS:

Sand and Dust: MIL-STD-810D, Method 510.2

VMEbus PRODUCT RECORD

VENDOR: LORAL
PRODUCT: SEVERE ENVIRONMENTAL CHASSIS
PART NO: TRILOBYTE IV-B
TYPE: CHASSIS
CATEGORY: RUG

FEATURES:

Max 750W Power Supply (150 watt modules) 80% conversion efficiency (minimum)
9 standard 6U VME slots
Shock/Vibration Isolated Drive Platform max 4 standard 5.25 inch drives
Optional removable drive unit
TEMPEST Option

MIL-SPECS AND MIL-STDS:

MIL-STD-461, Electromagnetic Emission/Susceptibility
MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-25C to +65C
NON-OPERATING TEMPERATURE:	-33C to +71C
HUMIDITY:	5 to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	4g rms 5 to 2000Hz
SHOCK:	25g 11ms
ALTITUDE:	18000 feet

COMMENTS:

Sand and Dust: MIL-STD-810D, Method 510.2

VMEbus PRODUCT RECORD

VENDOR: MOTOROLA
PRODUCT: SCSI CONTROLLER
PART NO: MVME 326-SM
TYPE: MASS STORAGE
CATEGORY: RUG

FEATURES:

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	
VIBRATION - SINE:	
VIBRATION - RANDOM:	.05g ² /Hz 10-2000Hz 10grm
SHOCK:	30g peak for 6-9ms half sine
ALTITUDE:	

COMMENTS:

Severe Military Environment
MIL-Q-9858A
MIL-P-55110

VMEbus PRODUCT RECORD

VENDOR: MOTOROLA
PRODUCT: SCSI CONTROLLER
PART NO: MVME 326-SI
TYPE: MASS STORAGE
CATEGORY: RUG

FEATURES:

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	0C to +65C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	
VIBRATION - SINE:	
VIBRATION - RANDOM:	.05g ² /Hz 10-2000Hz 10grm
SHOCK:	30g peak 6-9ms half sine
ALTITUDE:	

COMMENTS:

Severe Industrial Environment
MIL-Q-9858A
MIL-P-55110

VMEbus PRODUCT RECORD

VENDOR: MOTOROLA
PRODUCT: MEMORY MODULE
PART NO: MVME224-1/-2-SM
TYPE: MEMORY
CATEGORY: RUG

FEATURES:

4/8MBytes Memory
VSB Interface, 32-bit address/data
A24/32:D8/16/32 VMEbus Interface
Byte parity generation and checking
Read (DSA to DTACK) 200ns
Write (DSA to DTACK) 70ns

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	5% to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	.05g ² /Hz 10-2000Hz 10grm
SHOCK:	30g peak 6-9ms half sine
ALTITUDE:	

COMMENTS:

Severe Military Environment
MIL-Q-9858A
MIL-P-55110

VMEbus PRODUCT RECORD

VENDOR: MOTOROLA
PRODUCT: MEMORY MODULE
PART NO: MVME224-1/-2-SI
TYPE: MEMORY
CATEGORY: RUG

FEATURES:

4MByte or 8MByte
A24/32:D8/16/32 VMEbus Interface
Byte parity generation and checking
Read (DSA to DTACK) 200ns
Write (DSA to DTACK) 70ns

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	0C to +65C
NON-OPERATING TEMPERATURE:	-40C to +85C
HUMIDITY:	5% to 95% Non-Condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	.05g ² /Hz 10-2000Hz 10grm
SHOCK:	30g peak 6-9ms half sine
ALTITUDE:	

COMMENTS:

Severe Industrial Environment

VMEbus PRODUCT RECORD

VENDOR: MOTOROLA
PRODUCT: CPU MODULE
PART NO: MVME 141-SI
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

CPU-MC68030 (25MHz)
64 KByte Cache Memory
MC 68882 (25MHz) Floating Point Coprocessor
VSB Interface
1 16-bit timer and 1 24-bit counter/timer
2 RS-232 serial channels
A32:D32 Master/Slave VMEbus Interface
4 Level Arbiter, 7 Level Interrupter/Interrupt
Handler, 4 Level Requester

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	0C to +65C
NON-OPERATING TEMPERATURE:	-40C to +85C
HUMIDITY:	5% to 90% Non-Condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	.05g ² /Hz 10-2000Hz 10grm
SHOCK:	30g peak 6-9ms (half sine)
ALTITUDE:	

COMMENTS:

Severe Industrial Environment

VMEbus PRODUCT RECORD

VENDOR: MUPAC
PRODUCT: CHASSIS
PART NO: 508/528 SERIES
TYPE: CHASSIS
CATEGORY: COTS

FEATURES:

Horizontal load enclosures
Full assortment of backplane configurations
Wide choice of power supply options
Peripheral mounting options

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: MUPAC
PRODUCT: CHASSIS
PART NO: 509/529 SERIES
TYPE: CHASSIS
CATEGORY: COTS

FEATURES:

Vertical load enclosures
Full assortment of backplane configurations
Wide choice of power supply options
Peripheral mounting options

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: MUPAC
PRODUCT: CHASSIS
PART NO: 512 SERIES
TYPE: CHASSIS
CATEGORY: COTS

FEATURES:

Powered rack family
Full assortment of backplane configurations
Wide choice of power supply options
Peripheral mounting options

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: DIGITAL SIGNAL PROCESSOR
PART NO: VDSP-56
TYPE: DIGITAL SIGNAL PROCESSOR
CATEGORY: RUG

FEATURES:

CPU: Motorola DSP-56001, 24-bit, 27 MHz
Performance: 1024 complex point FFT executed 2.5 ms
3 24/96 Kbyte, 24-bit wide memory X,Y,+ Program cd
Two serial channels
One 24-bit parallel channel
Nine General Purpose I/O channels
24-bit local DSPbus
A16:D8 Slave VMEbus Interface
Seven Level Interrupt Handler

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% Non-Condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5-500Hz (2g acceleration)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	

COMMENTS:

Distributed by WESPERCORP and DYNATEM
MTBF 100,000 hours

VMEbus PRODUCT RECORD

VENDOR: OETTLER + REICHLER
PRODUCT: IBM I/O MODULE
PART NO: VIBM-IO
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

Graphic, Floppy, SCSI, and I/O Controller
Used in conjunction with VIBM-AT
Graphic: VGA, EGA, CGA, MDA, Hercules, and Hi Res
Floppy: Up to two drives, 5.25 and 3.5 inch
SCSI: Hard disk and Streamer
Two RS-232/422 serial channels (user selectable)
One Centronics printer interface, bidirectional

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLER + REICHLER
 PRODUCT: FOUR CHANNEL MOTION CONTROLLER
 PART NO: VMOT-10
 TYPE: INPUT/OUTPUT
 CATEGORY: RUG

FEATURES:

- One to four independent channels
- One LM628 motion-control processor per channel
- Programmable sampling interval from 341us-87us
- 32-bit counter: position/velocity control per chan
- +/-10 volt, 12-bit opto isolated analog output
- Optional 8-bit sign magnitude PWM interface
- 5 general purpose opto isolated DC inputs per chan
- 2 gen. purp. opto isolated DC outputs per channel
- 4 independent 21-pin connectors
- A16:D8 Slave VMEbus Interface
- 256 byte address space

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
 MTBF 100 000 hours
 Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLER + REICHLER
PRODUCT: MULTI-I/O MOD. PARALLEL/COUNTER I/O
PART NO: VMIO-10
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

40 I/O lines w/two Z8536 devices
6 16-bit programmable counter/timers (Z8536)
User definable grid array (37x32 holes)
Max 4 piggy-back modules 8 or 12 chan (12 avail)
Piggy-back modules-TTL I/O, AC/DC opto input,
DC opto output, relay, zero power relay, short
circuit protected DC opto output, analog input,
analog output, incremental encoder input, synchro
resolver input, synchro resolver output
A16:D8 Slave VMEbus Interface, 256 word add. space
One 96-pin male DIN 41612 VG-C connector

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

MTBF 100000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: DOUBLE HEIGHT 6U MULTI-I/O MODULE
PART NO: VMIO-12
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

Functionally identical to VMIO-10
80 I/O signals with four Z8536 devices
Twelve 16-bit programmable counter/timers
User definable grid array (36x89 holes)
Up to eight piggy-back modules (see VMIO-10)
A16:D8 Slave VMEbus Interface, 256 word add. space
Two 96-pin male DIN 41612 VG-C connectors

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLER + REICHLER
PRODUCT: SERIAL COMMUNICATION CONTROLLER
PART NO: VSER-80
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

Eight independent synchronous full duplex channels
8-byte transmit and 8-byte receive FIFO per chan.
Software selectable baud rate from 110-38400 baud
Each channel independently selectable for:
RS-232 RxD, TxD, RTS, CTS, DTR, DSR
RS-422/485 RxD, TxD, TRS, CTS
20 mA RxD, TxD (opto isolated)
A16:D8 Slave VMEbus Interface, 246 byte add. space

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLER + REICHLER
PRODUCT: SERIAL COMMUNICATION CONTROLLER
PART NO: VSER-10
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

2 independent synchron/asynchron full duplex chan
Programmable synchronous SDLC/HDLC + BiSync mode
CRC generation and checking
NRZ, NRZI, or FM data encoding
Software selectable band rate from 50 to 1M band
Each Channel independently selectable for:
RS-232, OPTO RS-232 RxD,TxD,RTS,CTS,DSR
RS-422/485, OPTO RS-422/485 RxD,TxD,RTS,CTS
OPTO 20 mA
A16:D8 Slave VMEbus Interface, 256 word add. space

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLER + REICHLER
PRODUCT: UNIVERSAL ANALOG/DIGITAL CONVERTER
PART NO: VADC-20
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

AD674 Converter w/sample and hold device
12-bit, non-linearity error 1/2 LSB
Max Conversion Time-15us(12-bit), 10us (8-bit)
Max 2 diff. signal conditioning piggy-back modules
Input range jumper selectable between +10v, +/-5v
and +/-10v
One 96-pin DIN 41612 VG-C male connector
A16:D16 Slave VMEbus Interface, 256 word add. space

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 25C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: ANALOG/DIGITAL CONVERTER
PART NO: VADC-10
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

16 Single-ended or 8 differential multiplexed
analog input channels
AD674 converter w/sample and hold device
12-bit, max 15us, non-linearity error 1/2 LSB
Jumper selectable Input Range +10v, +/-5v, +/-10v_
A16:D8 Slave VMEbus Interface, 256 word add. space

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-25C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLER + REICHLER
PRODUCT: DIGITAL/ANALOG CONVERTER
PART NO: VDAC-10
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

4 indep. analog output channels (DAC 1230 devices)
12-bit resolution, non-linearity error 1/2 LSB
Output voltage jumper selectable +5v, +10v, +/-10v
Max output current 10 mA
Settling time-25us max .01% of full scale (typical)
15-pin D-Sub female connector
A16:D8 Slave VMEbus Interface, 256 word add. space

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 25C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: DIGITAL/ANALOG CONVERTER
PART NO: VDAC 12-16
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

3 versions- 12-bit resolution, 8/4 channels
 16-bit res. 8/4 chann, 14-bit accuracy
 16-bit res. 8/4 channels
Each channel independently jumper selectable between +5v, +10v, +/-5v, and +/-10v
Max current +/-5mA
Settling time typical 7us to .01% of full scale
25-pin D-Sub female connector
A16:D16 Slave VMEbus Interface, 256 word add space

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-25C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: IEC/IEEE INTERFACE
PART NO: VIEC-10
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

IECbus uPD7210 controller (master/slave) talker
and listener
26 I/O signals w/Z8536 device
9 inputs, 3 outputs, and 14 interrupt I/O lines
Three 16-bit programmable counter/timer (Z8536)
26-pin IEC 625 and IEEE 488 compatible connector
A16:D8 Slave VMEbus Interface, 256 word add. space

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-0C to +70C
NON-OPERATING TEMPERATURE:	-45C to +85C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: COUNTER AND PARALLEL I/O
PART NO: VPAR-10
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

52 I/O signals w/2 Z8536 devices
18 output + 34 interrupt I/O lines
34 lines buffered w/24 mA drive current
6 16-bit programmable counter/timers (Z8536)
4 26-pin connectors w/Centronics-like pinout
A16:D8 Slave VMEbus Interface, 256 word add. space

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: RELAYS OUTPUT
PART NO: VREL-10
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

16 output channels w/1 change over switch each
48-pin DIN 41612-F connector
Relay contact rating 125VA, 250V, 3A
Relay cycling speed 3ms
Maximum operating frequency 100Hz
500V galvanic isolation
A16:D8 Slave VMEbus Interface, 256 word add. space

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	

COMMENTS:

Distributed by WESPERCORP and DYNATEM
MTBF 100,000 hours

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: OPTO ISOLATED INPUT MODULE
PART NO: VINP-10
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

16 digital opto isolated inputs w/Z8536 device
2 16-bit programmable counter/timers (Z8536)
Switching voltage typical 12V
Max input current 20 mA
Max operating frequency 20KHz
1000V opto isolation meets VDE 110C
A16:D8 Slave VMEbus Interface 256 word add. space

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	

COMMENTS:

Distributed by WESPERCORP and DYNATEM
MTBF 100,000 hours

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: OPTO ISOLATED OUTPUT MODULE
PART NO: VOUT-10
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

16 digital opto isolated high current outputs
32-pin DIN 41612-F connector
Max switching voltage 100V
Max output current 4A (7A peak)
Max operating frequency 10KHz
1000V opto isolation meets VDE 110C
A16:D8 Slave VMEbus Interface, 256 word add space

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	

COMMENTS:

Distributed by WESPERCORP and DYNATEM
MTBF 100,000 hours

VMEbus PRODUCT RECORD

VENDOR: OETTLER + REICHLER
PRODUCT: IBM I/O MODULE (INDUS & ENVIRON)
PART NO: VIBM-IO
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

Graphic, Floppy, SCSI, and I/O Controller
Used in conjunction with VIBM-AT
Graphic:VGA,EGA,CGA,MDA,Hercules,High Res 800x600
Floppy:Max 2 drives;5.25"(360KB,720KB,1.2MB) and
3.5"(720KB,1.44MB)
SCSI:HardDisk and Streamer
2 RS-232/422 serial channels (user selectable)
1 Centronics printer interface, bidirectional

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	
ALTITUDE:	

COMMENTS:

Distributed by WESPERCORP and DYNATEM
MTBF 100000 hours

VMEbus PRODUCT RECORD

VENDOR: OETTLER + REICHLER
PRODUCT: ETHERNET/CHEAPERNET CONTROLLER
PART NO: VLAN-10
TYPE: LOCAL AREA NETWORK
CATEGORY: RUG

FEATURES:

CPU-68HC000 (12.5 MHz)
AMD ChipSet AM-7990, 7992, 7996
IEEE 802.3 10 base 5/2
15-pin Female D-sub connector for Ethernet
BNC-connector for Cheapernet
246 Kbyte static RAM
Bidirectional interrupt
Programmable VMEbus interrupt vector
VMEbus interrupt level jumper selectable
DMA
A24:D8/D16 Slave VMEbus Interface

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLER + REICHLER
PRODUCT: SCSI AND FLOPPY CONTROLLER
PART NO: VMSC-20
TYPE: MASS STORAGE
CATEGORY: RUG

FEATURES:

NCR 53C400 SCSI Processor
Supports ANSI X3.131-1986 SCSI Standard
Transfer Rate-up to 3.0 Mbyte/sec
Two Shugart compatible floppy disk drives
Mixed 3 to 5.25 inch drives
A16:D8 Slave VMEbus Interface
256 word address space
Jumper selectable interrupt level (1-7)

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: WINCHESTER AND FLOPPY CONTROLLER
PART NO: VMSC-10
TYPE: MASS STORAGE
CATEGORY: RUG

FEATURES:

Winchester-2 drives w/ST-506 interface connectable
Each drive max 8 heads/1024 cylinders
Floppy-4 drives directly connectable
Mixed operation w/3-8 inch drives
Drive & Format param. software selectable
Local Z-80 CPU
32 Kbyte high speed local cache RAM
A16:D8/D16 Slave VMEbus Interface
246 byte address space
Vector interrupt on level 4

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLER + REICHLER
PRODUCT: STATIC MEMORY MODULE
PART NO: VBYT-10 Series
TYPE: MEMORY
CATEGORY: RUG

FEATURES:

8192Kbyte mixed RAM,ROM,EEPROM on 16 32-pin socket
A24:D8/D16 Slave VMEbus Interface
Jumper selectable VMEbus address range
Jumper selectable DTACK generation from 40ns-280ns

MIL-SPECS AND MIL-STDS:

MIL-STD-883C, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% Non-Condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5-500Hz (2g acceleration)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	

COMMENTS:

Distributed by WESPERCORP and DYNATEM
MTBF 100,000 hours

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: DYNAMIC MEMORY MODULE
PART NO: VRAM-10 series
TYPE: MEMORY
CATEGORY: RUG

FEATURES:

Up to 61384 Kbyte DRAM
Max Read Access Time 150ns
Max Write Access Time 100ns
Min Cycle Time 120ns
Jumper selectable VMEbus address range
A24:D8/D16 Slave VMEbus Interface

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: MEMORY CARD INTERFACE
PART NO: VMEM-10
TYPE: MEMORY
CATEGORY: RUG

FEATURES:

Accepts 8-bit and 16-bit wide memory cards
Max card capacity 8192 Kbyte
Transfer Rate: up to 5.3 Mbyte/sec
A16:D8/D16 Slave VMEbus Interface
256 byte address space

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: 16-BIT CPU MODULE
PART NO: VCPU-02/12
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

CPU Options: 68HC000(12 or 16MHz), 68010 (12.5MHz)
A24:D08/16 VMEbus interface
8/16-bit I/O extension bus (VLXbus)
Up to 2048 KByte 0-wait state static RAM
BIT (Built-In-Test)
PAL selectable dual ported VMEbus address
Two RS-232/422/485 serial channels (selectable)
One 36-line parallel channel (50-pin connector)
Three 16-bit timers
Single level Arbiter, 6-level Interrupt Handler

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLER + REICHLER
PRODUCT: 16-BIT CPU MODULE
PART NO: VCPU-00/10
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

CPU Options: 68HC000(12.5 or 16MHz), 68010(12.5MHz)
A16/24:08/16 VMEbus interface
8/16-bit Extension bus (VMEbus)
128 KByte 0-wait state static RAM
BIT (Built-In-Test)
Pal selectable dual ported VMEbus address
Four RS-232/422/485 serial channels (selectable)
One 40-line parallel channel (50-pin connector)
six 16-bit timers
4-level Arbiter, 6-level Interrupt Handler

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: 32-BIT CPU MODULE
PART NO: VCPU-20
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

CPU Options: 68020(16, 25, or 33 MHz)
A16/24:D08/16 VMEbus interface
8/16-bit I/O Extension bus (VLXbus)
Up to 2048 KByte 32-bit wide static RAM
0-wait state at 16 and 25 MHz, one at 33 MHz
BIT
PAL selectable dual ported VMEbus address
One RS-232 serial channel
One RS-232/422 (user selectable) serial channel
4-level Arbiter, 7-level Interrupt Handler
256 Byte cache RAM
Optional 68882 Floating Point Processor

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: 80286 PROCESSOR MODULE
PART NO: VIBM-AT
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

IBM-AT compatible
CPU: iAPX286(10MHz)
Optional 80287 Floating Point Coprocessor
Up to 4096 KByte 0-wait state dynamic RAM
A16/24:D08/16 VMEbus interface
Single level Arbiter, 7-level Interrupt Handler
DMA controller

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: 16-BIT CPU MODULE(INDUS & ENVIRON)
PART NO: VCPU-02/12
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

CPU Options: 68HC000(12.5MHz), 68HC000(16MHz),
MC68010(12.5MHz)
A24:D8/16 VMEbus Interface
8/16-bit I/O Extension Bus (VLXbus)
Up to 2408KByte 0-wait state static RAM
BIT (Built-In-Test)
PAL selectable dual ported VMEbus address
2 RS-232/422/485 serial channels (user selectable)
1 36-line parallel channel (50-pin connector)
Three 16-bit timers
Single Level Arbiter, Six Level Interrupt Handler

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	

COMMENTS:

Distributed by WESPERCORP and DYNATEM
CMOS Technology
MTBF 100,000 hours

VMEbus PROJECT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: 16-BIT CPU MODULE (INDUS & ENVIRON)
PART NO: VCPU-00/10
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

CPU options: 68HC000 (12 MHz), 68HC000 (16MHz),
MC68010 (12.5MHz)
A24/A16: D8/D16 VMEbus Interface
8/16-bit I/O Extension Bus (VLXbus)
128KByte 0-wait state static RAM
BIT (Built-In-Test)
PAL selectable dual ported VMEbus Address
4 RS-232/422/485 serial channels (user selectable)
1 40-line parallel channel (50-pin connector)
6 16-bit Timers
4 Level Arbiter, 6 Level Interrupt Handler

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	

COMMENTS:

Distributed by WESPERCORP and DYNATEM
MTBF 100000 hours
CMOS Technology

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: 32-BIT CPU MODULE (INDUS & ENVIRON)
PART NO: VCPU-20
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

CPU options: 68020(16MHz), 68020(25MHz), 68020(33MHz)
A24/A16: D8/D16 VMEbus Interface
8/16-bit I/O Extension Bus (VLXbus)
Max 2048KB 32-bit wide static RAM (0-wait state at
16 and 25MHz, one at 33MHz)
BIT (Built-In-Test)
PAL Selectable dual ported VMEbus Address
1 RS-232&RS-232/422 (user selectable) serial chan
4 Level Arbiter, 7 Level Interrupt Handler
256 Byte Cache RAM
Optional 68882 Floating Point Processor

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	

COMMENTS:

Distributed by WESPERCORP and DYNATEM
MTBF 100000 hours
CMOS Technology

VMEbus PRODUCT RECORD

VENDOR: OETTLE + REICHLER
PRODUCT: 80286 PROCESSOR MODULE
PART NO: VIBM-AT
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

IBM-AT compatible Motherboard
CPU:iAPX286 (10MHz)
Optional 80287 Floating Point Coprocessor
Max 4096KByte 0-wait state dynamic RAM
A24/A16:D8/D16 VMEbus Interface
Single Level Arbiter, 7 Level Interrupt Handler
DMA Controller

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	

COMMENTS:

Distributed by WESPERCORP and DYNATEM
MTBF 100,000 hours

VMEbus PRODUCT RECORD

VENDOR: OETTLER + REICHLER
PRODUCT: VIDEO AND GRAPHICS TERMINAL
PART NO: TK 4200
TYPE: VIDEO/GRAPHICS
CATEGORY: RUG

FEATURES:

Up to 1024x768 pixels, noninterlaced
Dual ported high speed 512 Kbyte video RAMs
Five independent bit planes (4 graphic, 1 alpha)
16 + 1 colors from 262,144 different colors
HD-64180 CPU
RS-232/422 serial channel
Centronics hardcopy and plotter interface
A16:D8 Slave VMEbus Interface
256 byte address space
Tektronix and VT-100 Emulation

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	- 40C to +85C
NON-OPERATING TEMPERATURE:	-55C to +100C
HUMIDITY:	Up to 95% non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500 Hz (2g accel)
SHOCK:	20g for 6 ms (half sine)
ALTITUDE:	

COMMENTS:

CMOS technology
MTBF 100 000 hours
Distributed by WESPERCORP and DYNATEM

VMEbus PRODUCT RECORD

VENDOR: OMNIBYTE
PRODUCT: SINGLE BOARD COMPUTER
PART NO: OB68K/VME 1-M
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

68000 CPU (10MHz)
Max 32KBx8 statix RAM
2 RS-232 serial channels
2 8-bit parallel I/O ports
Three 16-bit timer/counters
4-Level Interrupt Handler
7-Level Interrupt Handler
A24/16:D16 Master VMEbus Interface

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -40C to +85C
NON-OPERATING TEMPERATURE: -55C to +125C
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: MOTION CONTROLLER
PART NO: VIMC
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Intelligent motion controller for two independent
axes
Quadratic encoder input (32-bit)
Analog output (12-bit) with 350 us sample time
Fully programmable
16-bit filter register
Extra digital I/O for servos, etc.

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: STANDARD I/O MODULE
PART NO: VSIO
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Two RS-232/422, 20 mA, or fiber optic ports
Synchronous or Asynchronous
SDLC/HDLC available
Centronics interface available
16 TTL I/O lines

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: ANALOG/DIGITAL CONVERTER
PART NO: VADI
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- 16 channels or 8 channels differential
- 2 KByte FIFO to offload VMEbus CPU
- 8 us or 25 us conversion time
- Piggy-backs for additional protection or current measurements

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: OPTO-ISOLATED DIGITAL INPUT
PART NO: VDIN
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

16 channels
24V input voltage
40-pin connector
Optional LEDs on front panel

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: OPTO-ISOLATED DIGITAL OUTPUT
PART NO: VDOUT
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- 16 channels
- Short circuit protection
- Optional LED
- 300 mA output current per channel
- 35V switching voltage

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: SERIAL I/O
PART NO: VIOS
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Onboard 68000CPU
64/256 KByte local RAM/EPROM
64 KByte dual ported RAM
Four serial output channels with 68562 DUSCC, each
individually configurable for RS-232, RS-422,
20 mA, or fiber optic
Two timers

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: DIGITAL I/O
PART NO: VIOP
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Onboard 68000 CPU
64/256 KByte local RAM/EPROM
64 KByte dual ported RAM
2x16 digital I/O lines with 68230
2x16 channels, each 16-bit configurable for I/O
Opto-isolated Centronics interface
Two timers

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: MULTIFUNCTION I/O
PART NO: VMFB
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Two serial I/O channels (68562)
16 digital I/O lines (68230)
Two timers
Remote alarm output for automated system operation

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: DIGITAL/ANALOG AND ANALOG/DIGITAL
PART NO: VDAD
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

D/A and A/D converter module
Four independent analog outputs for voltage
ranges 0-5V/+5V/0-10V, or 0-20mA/4-20mA
16 analog input channels, 0-10 V
Programmable gain

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: 32 CHANNEL DIGITAL OUTPUT
PART NO: VDOUT-32
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

24Vdc (max 60V) 0.5 A
Eight interrupt inputs can be used to monitor
output conditions as well as for separate
inputs

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: X.21 DATEX CONTROLLER
PART NO: VIX21
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

Two or four channels
82CX21 controller with onboard protocol handling
Communication via dual ported memory to VMEbus
Two channel version with two extra RS-232 serial
channels
Occupies two slots
A24:D16 slave

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: 1553 CONTROLLER
PART NO: V1553
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

MIL-STD-1553 A/Bcontroller
Based on DDC BUS-61554
Two serial channels
Dual redundancy
BC/RTU/MT protocol
8Kx16bit shared memory
Built-in Self-test
A24:D16 Slave

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: ETHERNET CONTROLLER
PART NO: VLAN
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

68000 CPU
2x64K dual ported RAM plus local RAM/ROM
Onboard TCP/IP with no host intervention

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: MASS STORAGE CONTROLLER
PART NO: VMSC
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

Controls up to two Winchester (ST506), four
floppy disks, or three floppy disks and one
streamer
Onboard CPU and DMA

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: SCSI BUS CONTROLLER
PART NO: VSCSI
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

ESP 53C90 (24 MHz)
Two separate FIFOs for read and write operations
Asynchronous and synchronous data transfers up to
3 MHz

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: DYNAMIC RAM
PART NO: VMEM-D
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

Hidden refresh logic memory
512 KByte and 1 MByte
Parity error detection for each byte
200 ns access time
180 ns cycle time

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: CMOS RAM/EPROM MODULE
PART NO: VMEM-S1
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

2 MByte RAM/EPROM
Supports 32Kx8/64Kx8 or 128Kx8 chips
100 to 250 ns access time (selectable)

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: MICROCOMPUTER
PART NO: VM68KC-2
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68020 and 68881 at 12.5/16.7/20/25 MHz
1 MByte SRAM
Four 32-pin sockets for 512 KByte EPROM
32-bit memory organization
Two serial I/O ports (RS-232/422/485 or 20mA)
32-bit timer
system controller
Occupies two slots
OS-9/68K, PDOS, or VxWorks

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: MICROCOMPUTER
PART NO: VM68KA-2
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

MC68000 (8/12 MHz)
CMOS
Four sockets for 64 KByte RAM
64 KByte EPROM
RS-232 serial port
Three 16-bit timer/counters
System controller
OS-9/68K, PDOS, or VERSAdos

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: SINGLE BOARD COMPUTER
PART NO: VSBC-1
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68HC000 (12.5/16.7 MHz)
128 KByte - 1024 KByte SRAM, 0-wait state
Up to 512 KByte ROM
Parallel I/O port, 16-line
Serial I/O ports, configurable as RS-232/422/485
20 mA, or fiber optic
SCSI interface
Bus Arbiter
Full system controller

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: SINGLE BOARD MICROCOMPUTER
PART NO: VM-20
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68020/68881 (16 mhz)
1-4 MByte DRAM, 0-wait state
Up to 1 MByte EPROM
Configurable serial interface (RS-232 standard)
System controller
32-bit memory structure

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: MICROCOMPUTER
PART NO: VMPPM68KD
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68030/68882 (25 MHz)
256 KByte-1 MByte dual ported SRAM, 0-wait state
Four 32-pin sockets for 512 KByte EPROM
32-bit memory organization
Two serial I/O ports, configuratble as RS-232/422/
485 or 20 mA
32-bit timer
System controller
Occupies two slots

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PEP MODULAR COMPUTERS
PRODUCT: HIGH RESOLUTION GRAPHICS CONTROLLER
PART NO: VGPM
TYPE: VIDEO/GRAPHICS
CATEGORY: COTS

FEATURES:

Based on HD 63484 ACRTC
1024x1024 pixels
16 out of 4096 colors with CLUT
32 or 64 MHz pixel frequency
1 MByte display memory
Zoom, horizontal, and vertical smooth scrolling
Cascadable for 8 or 12 bit planes

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: PERFORMANCE SEMICONDUCTOR CORP
PRODUCT: SINGLE BOARD COMPUTER
PART NO: PV1750AE
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

3.6 MIPS DAIS mix throughput
256K words SRAM
MMU/Block-protect unit
2 programmable serial ports

MIL-SPECS AND MIL-STDS:
MIL-STD-1750

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: ATR BOX
PART NO: 1 ATR Long
TYPE: CHASSIS
CATEGORY: MIL

FEATURES:

15 standard VME slots
32-bit VMEbus and VSB
Cooling dissipation 220W
Optional 115VAC or 28VDC power supply
115VAC Input-40A @ +5V, 2A @ +12V, 2A @ -12V
28VDC Input-36A @ +5V, 4A @ +12V, 4A @ -12V

MIL-SPECS AND MIL-STDS:

MIL-STD-704, Aircraft Electric Power Characteristics
MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +71C
NON-OPERATING TEMPERATURE:	-62C to +125C
HUMIDITY:	Up to 95%
VIBRATION - SINE:	
VIBRATION - RANDOM:	15-2000Hz-.1g ² /Hz (12rms)
SHOCK:	20g for 11ms
ALTITUDE:	50000 feet

COMMENTS:

Salt Fog-Continuous exposure to mist with 5% salt solution for 48 hours
MIL-STD-810D(Method 506.2) Rain-
MIL-STD-810D(Method 510.2) Sand and Dust

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: ATR BOX
PART NO: 1/2 ATR Short
TYPE: CHASSIS
CATEGORY: MIL

FEATURES:

- 5 standard VME Slots
- 32-bit VMEbus and VSB
- Cooling dissipation 75W
- Optional 115VAC or 28VDC power supply
 - 115VAC Input-12A @ +5V, 1A @ +12V, 1A @ -12V
 - 28VDC Input-12A @ +5V, 1A @ +12V, 1A @ -12V

MIL-SPECS AND MIL-STDs:

- MIL-STD-704, Aircraft Electric Power Characteristics
- MIL-STD-810, Environmental Test Methods
- MIL-STD-883, Microelectronics Test Methods/Procedures
- MIL-E-4158, General Requirements, Electronic Equipment, Ground
- MIL-T-5400, Airborne Electronic Equipment
- MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +71C
NON-OPERATING TEMPERATURE:	-62C to +125C
HUMIDITY:	Up to 95%
VIBRATION - SINE:	
VIBRATION - RANDOM:	15-2000Hz-.1g ² /Hz(12rms)
SHOCK:	20g for 11ms
ALTITUDE:	50000 feet

COMMENTS:

- Salt Fog-Continuous exposure to mist with 5% salt solution for 48 hours
- MIL-STD-810D(Method 506.2)-Rain
- MIL-STD-810D(Method 510.2)-Sand and Dust

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: ASYNC COMMUNICATIONS INTERFACE
PART NO: ACM-1
TYPE: INPUT/OUTPUT
CATEGORY: MIL

FEATURES:

8 asynchronous RS-422/423 serial channels
50band to 38.4Kband per channel
5 to 8bit characters with 1, 1 1/2, or 2 stop bits
Odd, Even or No Parity
64KByte RAM buffer
A24:D16 Slave VMEbus Interface

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-62C to +125C
HUMIDITY:	Up to 95%
VIBRATION - SINE:	
VIBRATION - RANDOM:	15-2000Hz-.1g ² /Hz(12rms)
SHOCK:	40g for 11ms
ALTITUDE:	50000 feet

COMMENTS:

Salt Fog-Continuous exposure to mist with 5% salt solution for 48 hours

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: MULTI-PROTOCOL COMM CONTROLLER
PART NO: MPCC-1
TYPE: INPUT/OUTPUT
CATEGORY: MIL

FEATURES:

4 high speed synchronous/asynchronous serial chans
On-board 68020 processor
256KBytes dual ported buffer RAM
512KBytes EPROM
Bit and Byte control protocols (HDLC, SDL, etc.)
X.25 protocol support to level 4
RS-422 or 423 selectable per channel
BITE
3 channel counter/timer

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-62C to +125C
HUMIDITY:	Up to 95%
VIBRATION - SINE:	
VIBRATION - RANDOM:	15-2000Hz-.1g ² /Hz (12rms)
SHOCK:	40g for 11ms
ALTITUDE:	50000 feet

COMMENTS:

Salt Fog-Continuous exposure to mist with 5% salt solution for 48 hours

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: MIL-STD-1553B INTERFACE
PART NO: MBI-1
TYPE: LOCAL AREA NETWORK
CATEGORY: MIL

FEATURES:

Dual redundant bus interface
Bus Controller, Remote Terminal, or Passive Bus
Monitor
8KByte buffer memory
BITE
On-board microcontroller

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-STD-1553, Command Response Multiplex Data Bus
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-62C to +125C
HUMIDITY:	Up to 95%
VIBRATION - SINE:	
VIBRATION - RANDOM:	15-2000Hz-.1g ² /Hz (12rms)
SHOCK:	40g for 11ms
ALTITUDE:	50000 feet

COMMENTS:

Salt Fog-Continuous exposure to mist with 5% salt
solution for 48 hours

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: ETHERNET/MESSAGE PASSING PROCESSOR
PART NO: EMPP-1
TYPE: LOCAL AREA NETWORK
CATEGORY: MIL

FEATURES:

Dual redundant 10Mbit/sec Ethernet interface
On-board 68020 processor
256KBytes dual ported buffer RAM
512KBytes EPROM
TCP/IP protocol support
General Purpose DMA controller
BITE
Three channel counter/timer

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-62C to +125C
HUMIDITY:	Up to 95%
VIBRATION - SINE:	
VIBRATION - RANDOM:	15-2000Hz-.1g ² /Hz (12rms)
SHOCK:	40g for 11ms
ALTITUDE:	50000 feet

COMMENTS:

Salt Fog-Continuous exposure to mist with 5% salt
solution for 48 hours
IEEE 802.3

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: SCSI PERIPHERAL INTERFACE
PART NO: SCSI-1
TYPE: MASS STORAGE
CATEGORY: MIL

FEATURES:

Compatible with ANSI X3T9.2 SCSI Specification
Up to 16 concurrent tasks
Sustained data rate on SCSI 1.5MByte/sec
Initiator or Target
SCSI disconnect/reconnect
DMA transfers up to 32-bits wide
On-board 68000 processor w/16KBytes dual port RAM
A24/32:D8/16/32 Slave VMEbus Interface

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-62C to +125C
HUMIDITY:	Up to 95%
VIBRATION - SINE:	
VIBRATION - RANDOM:	15-2000Hz-.1g ² /Hz (12rms)
SHOCK:	40g for 11ms
ALTITUDE:	50000 feet

COMMENTS:

Salt Fog-Continuous exposure to mist with 5% salt solution for 48 hours

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: DUAL PORT MEMORY
PART NO: SME-1A
TYPE: MEMORY
CATEGORY: MIL

FEATURES:

Up to 2MByte SRAM, 4MBytes EPROM (32-bit wide)
Dual ported VMEbus/VSB
Block transfer support
A24/32:D8/16/32 VMEbus Interface
Sixteen 32-pin JEDEC sites

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-62C to +125C
HUMIDITY:	Up to 95%
VIBRATION - SINE:	
VIBRATION - RANDOM:	15-2000Hz-.1g ² /Hz (12rms)
SHOCK:	40g for 11ms
ALTITUDE:	50000 feet

COMMENTS:

Salt Fog-Continuous exposure to mist with 5% salt solution for 48 hours

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: DUAL PORT MEMORY
PART NO: DME-1
TYPE: MEMORY
CATEGORY: MIL

FEATURES:

Up to 16MBytes DRAM (32-bit wide)
Dual ported VMEbus/VSB
A24/32:D8/16/32 VMEbus Interface

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-62C to +125C
HUMIDITY:	Up to 95%
VIBRATION - SINE:	
VIBRATION - RANDOM:	15-2000Hz-.1g ² /Hz (12rms)
SHOCK:	40g for 11ms
ALTITUDE:	50000 feet

COMMENTS:

Salt Fog-Continuous exposure to mist with 5% salt solution for 48 hours

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: SINGLE BOARD COMPUTER
PART NO: CPU-1A
TYPE: SINGLE BOARD COMPUTER
CATEGORY: MIL

FEATURES:

68020 (12.5 MHz or 16.67 MHz) processor
Optional 68881 coprocessor
A16/24/32:D08/16/32 Master/Slave VMEbus interface
4-level Arbiter
7-level Interrupter/Interrupt Handler
Requester (ROR or RWD)
Supports Read-Modify-Write and Address-Only
32-bit VSB interface
Two RS-423 serial channels
Up to 512 KBytes RAM and 1 MByte EPROM
Programmable counter/timer

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-62C to +125C
HUMIDITY:	Up to 95%
VIBRATION - SINE:	
VIBRATION - RANDOM:	15-2000Hz, 0.1g ² /Hz, 12rms
SHOCK:	40g for 11 ms
ALTITUDE:	50 000 feet

COMMENTS:

MIL-STD-810 (509.2) Salt Fog

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: SINGLE BOARD COMPUTER
PART NO: CPU-2A
TYPE: SINGLE BOARD COMPUTER
CATEGORY: MIL

FEATURES:

68020 (16.67MHz Processor)
Optional 68881 Coprocessor
512KByte (32-bit wide) dual Ported SRAM
512KByte (32-bit wide) on board programmable EPROM
40MByte/sec DMA controller
Optional Ethernet interface with TCP/IP
2 RS-232/423 serial channels
VTC VIC 068 ASIC VMEbus Interface Controller
Programmable Interval Timer (50 to 1000Hz)

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-62C to +125C
HUMIDITY:	Up to 95%
VIBRATION - SINE:	
VIBRATION - RANDOM:	15-2000Hz-.1g ² /Hz (12rms)
SHOCK:	40g for 11ms
ALTITUDE:	50,000 feet

COMMENTS:

Salt Fog-Continuous exposure to mist with 5% salt solution for 48 hours

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: SINGLE BOARD COMPUTER
PART NO: CPU-3A
TYPE: SINGLE BOARD COMPUTER
CATEGORY: MIL

FEATURES:

68030 (up to 33MHz) processor
68882 (up to 33MHz) coprocessor
Up to 3MByte SRAM, 512KByte programmable EPROM and
32KByte EEPROM
Dual ported to VMEbus and VSB

MIL-SPECS AND MIL-STDS:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-62C to +125C
HUMIDITY:	Up to 95%
VIBRATION - SINE:	
VIBRATION - RANDOM:	15-2000Hz-.1g ² /Hz (12rms)
SHOCK:	40g for 11ms
ALTITUDE:	50000 feet

COMMENTS:

Salt Fog-Continuous exposure to mist with 5% salt
solution for 48 hours

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: SINGLE BOARD COMPUTER
PART NO: CPU-20
TYPE: SINGLE BOARD COMPUTER
CATEGORY: MIL

FEATURES:

68020 (20MHz) processor
68882 (20MHz) coprocessor
2MByte 32-bit wide EPROM
4MByte 32-bit wide SRAM

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-62C to +125C
HUMIDITY:	Up to 95%
VIBRATION - SINE:	
VIBRATION - RANDOM:	15-2000Hz-.1g ² /Hz (12rms)
SHOCK:	40g for 11ms
ALTITUDE:	50000 feet

COMMENTS:

Salt Fog-Continuous exposure to mist with 5% salt solution for 48 hours

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: VIDEO DISPLAY MODULE
PART NO: GDP-1
TYPE: VIDEO/GRAPHICS
CATEGORY: MIL

FEATURES:

TMS 34020 graphics processor
Up to 3MByte Video RAM
256 displayable colors
1280x1024 resolution

MIL-SPECS AND MIL-STDs:

MIL-STD-810, Environmental Test Methods
MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-E-4158, General Requirements, Electronic Equipment, Ground
MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +85C
NON-OPERATING TEMPERATURE:	-62C to +125C
HUMIDITY:	Up to 95%
VIBRATION - SINE:	
VIBRATION - RANDOM:	15-2000Hz-.1g ² /Hz(12rms)
SHOCK:	40g for 11ms
ALTITUDE:	50000 feet

COMMENTS:

Salt Fog-Continuous exposure to mist with 5% salt solution for 48 hours

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: ASYNC COMMUNICATIONS INTERFACE
PART NO: ACM-1
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

8 asynchronous RS-422/423 serial channels
50band to 38.4Kband per channel
5-8 bit characters with 1, 1 1/2, or 2 stop bits
Odd, Even, or No Parity
64KByte RAM buffer
A24:D16 Slave VMEbus Interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-50C to +100C
HUMIDITY:	95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	-1000 to +50000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: MULTI-PROTOCOL COMM CONTROLLER
PART NO: MPCC-1
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

4 high speed synchronous/asynchronous serial chans
On-board 68020 processor
256KBytes dual ported buffer RAM
512KBytes EPROM
Bit and Byte control protocols (HDLC, SDLC, etc.)
X.25 protocol support to level 4
RS-422 or 423 selectable per channel
BITE
Three channel counter/timer

MIL-SPECS AND MIL-STDS:**ENVIRONMENTAL CHARACTERISTICS:**

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-50C to +100C
HUMIDITY:	95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	-1000 to +50000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: MIL-STD-1553B INTERFACE
PART NO: MBI-1
TYPE: LOCAL AREA NETWORK
CATEGORY: RUG

FEATURES:

Dual redundant bus interface
Bus Controller, Remote Terminal, or Passive Bus
Monitor
8KByte buffer memory
BITE
On-board microcontroller

MIL-SPECS AND MIL-STDs:

MIL-STD-1553, Command Response Multiplex Data Bus

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-50C to +100C
HUMIDITY:	95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	-1000 to +50000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: ETHERNET/MESSAGE PASSING PROCESSOR
PART NO: EMPP-1
TYPE: LOCAL AREA NETWORK
CATEGORY: RUG

FEATURES:

Dual redundant 10Mbit/sec Ethernet interface
On-board 68020 processor
256KBytes dual ported buffer RAM
512KBytes EPROM
TCP/IP protocol support
General purpose DMA controller
BITE
Three channel counter/timer

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-50C to +100C
HUMIDITY:	95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	20g for 6ms (half-sine)
ALTITUDE:	-1000 to +50000 feet

COMMENTS:

IEEE 802.3

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: SCSI PERIPHERAL INTERFACE
PART NO: SCSI-1
TYPE: MASS STORAGE
CATEGORY: RUG

FEATURES:

Compatible w/ANSI X3T9.2 SCSI Specification
Up to 16 concurrent tasks
Sustained data rate on SCSI 1.5MByte/sec
Initiator or Target
SCSI disconnect/reconnect
DMA transfers up to 32-bits wide
On-board 68000 processor w/16KBytes dual port RAM
A24/32:D8/16/32 Slave VMEbus Interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-50C to +100C
HUMIDITY:	95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	-1000 to +50000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: DUAL PORT MEMORY
PART NO: SME-1A
TYPE: MEMORY
CATEGORY: RUG

FEATURES:

Up to 2MBytes SRAM, 4MBytes EPROM (32-bit wide)
Dual ported VMEbus/VSB
Block transfer support
A24/32:D8/16/32 VMEbus Interface
Sixteen 32-pin JEDEC sites

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-50C to +100C
HUMIDITY:	95% Non-Condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	-1000 to +50000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: DUAL PORT MEMORY
PART NO: DME-1
TYPE: MEMORY
CATEGORY: RUG

FEATURES:

Up to 16MBytes DRAM (32-bit wide)
Dual ported VMEbus/VSB
A24/32:D8/16/32 VMEbus Interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-50C to +100C
HUMIDITY:	95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	20g for 6ms
ALTITUDE:	-1000 to +50000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: SINGLE BOARD COMPUTER
PART NO: CPU-1A
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

68020 (12.5 or 16.67MHz) Processor
Optional 68881 Coprocessor
A16/24/32:D8/16/32 Master/Slave VMEbus Interface
4-Level Arbiter (Round Robin or Priority)
7-Level Interrupter/Interrupt Handler
Requester (ROR or RWD)
Supports Read-Modify-Write and Address-only
32-bit VSB Interface
2 RS-423 serial channels
Max 512 KByte RAM and 1MByte EPROM
Programmable Counter/Timer

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-50C to +100C
HUMIDITY:	95% Non-Condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz, 2g accel
SHOCK:	20g for 6ms half sine
ALTITUDE:	-1000 to +50000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: SINGLE BOARD COMPUTER
PART NO: CPU-2A
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

68020 (16.67MHz) Processor
Optional 68881 Coprocessor
512KByte (32-bit wide) dual ported SRAM
512KByte (32-bit wide) on board programmable EPROM
40MByte/sec DMA controller
Optional Ethernet interface with TCP/IP
2 RS-232/423 serial channels
VTC VIC 068 ASIC VMEbus Interface Controller
Programmable Interval Timer (50 to 1000Hz)

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-50C to +100C
HUMIDITY	95% Non-Condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	-1000 to +50000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: SINGLE BOARD COMPUTER
PART NO: CPU-3A
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

68030 (up to 33MHz) processor
68882 (up to 33MHz) coprocessor
Up to 2MByte SRAM, 512KByte programmable EPROM and
32KByte EEPROM
Dual Ported to VMEbus and VSB

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-50C to +100C
HUMIDITY:	95% Non-Condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	-1000 to +50000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: SINGLE BOARD COMPUTER
PART NO: CPU-20
TYPE: SINGLE BOARD COMPUTER
CATEGORY: RUG

FEATURES:

68020 (20MHz) processor
68882 (20MHz) coprocessor
2MByte 32-bit wide EPROM
4MByte 32-bit wide SRAM

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-50C to +100C
HUMIDITY:	95% Non-Condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g Accel)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	-1000 to +50000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: RADSTONE TECHNOLOGY
PRODUCT: VIDEO DISPLAY MODULE
PART NO: GDP-1
TYPE: VIDEO/GRAPHICS
CATEGORY: RUG

FEATURES:

TMS 34020 graphics processor
Up to 3MByte video RAM
256 displayable colors
1280x1024 resolution

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-40C to +85C
NON-OPERATING TEMPERATURE:	-50C to +100C
HUMIDITY:	95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	5 to 500Hz (2g accel)
SHOCK:	20g for 6ms (half sine)
ALTITUDE:	-1000 to +50000 feet

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ROCKWELL INTERNATIONAL
PRODUCT: NTDS CHIP SET
PART NO:
TYPE: CHIP SET
CATEGORY: RUG

FEATURES:

8,16,or 32-bit NTDS to TTL interface
Configurable for NTDS Type A,B,C or H
XMIT Latch, NTDS Driver, Multiplexer,NTDS Receiver
Receive Latch
Hermetically sealed 85 PIN ceramic PGA package
Operates from +5V and -12V supplies

MIL-SPECS AND MIL-STDS:

MIL-STD-883, Microelectronics Test Methods/Procedures
MIL-STD-1397, I/O Interfaces, Standard Digital Data

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -55C to +125C
NON-OPERATING TEMPERATURE: -65C to +150C
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ROCKWELL INTERNATIONAL
PRODUCT: NTDS INTERFACE
PART NO: NTDS-110C
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

Configurable for NTDS Type A,B, or C
68000 (10MHz) processor
2KByte dual ported RAM (4KByte optional)
256KByte static RAM
64KByte EPROM
I/O FIFO buffering with 68450 DMA controller
4 channels full duplex
A16/24/32:D8/16/32 Master or Slave VMEbus Interface

MIL-SPECS AND MIL-STDs:

MIL-STD-1397, I/O Interfaces, Standard Digital Data

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	0C to +50C
NON- OPERATING TEMPERATURE:	-55C to +71C
HUMIDITY:	0 to 95%
VIBRATION - SINE:	
VIBRATION - RANDOM:	MILSTD-167-1, Type I, 4-50Hz
SHOCK:	MIL-S-901, Type A or B, Class II
ALTITUDE:	40000 feet

COMMENTS:

MIL-STD-454, Requirement 4-Fungus
MTBF 36800 hours

VMEbus PRODUCT RECORD

VENDOR: SBE INC
PRODUCT: VME INTERFACE CHIP SET
PART NO: VBIC/VSAM
TYPE: CHIP SET
CATEGORY: RUG

FEATURES:

VBIC-VMEbus Interface Controller
144-pin CMOS programmable ASIC; 16 MHz clock
4-Level Arbiter (PRI, RR, PRR)
7-Level Interrupt Handler; Interrupter (ROAK)
Requester (RWD, ROR)
VSAM-VMEbus Slave Address Manager
120-pin CMOS programmable ASIC
Unaligned Transfer:D32; Block Transfer:D16/32
Read-Modify-Write: D08/16/32
Location Monitor
Slave Address Decoder
A24/32:D08/16/32

MIL-SPECS AND MIL-STDS:

MIL-STD-883, Microelectronics Test Methods/Procedures

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: 0C to +70C
NON-OPERATING TEMPERATURE:
HUMIDITY: 0 to 95% Non-condensing
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: STOLLMANN
PRODUCT: X.25 COMMUNICATIONS BOARD
PART NO: SICC-X.25
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

X.21 or X.21-bis interface
LAP B protocol
Permanent and switched virtual connections
Full support of Q-, M-, and D-bit
Up to 63 channels, 12 active at one time
Transmission rate up to 19.2 Kbaud
ISO protocol layers 1-3 executed onboard
Optional higher level protocol

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: STOLLMANN
PRODUCT: ETHERNET CONTROLLER
PART NO: SICC-3-ETHERNET
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

Two channel controller
68020 MPU
1 ML DRAM, 0-wait state
512 KByte DRAM dual ported to VMEbus
256 KByte EPROM
One or Two Ethernet/Cheapernet adapters
TCP/IP firmware

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: STOLLMANN
PRODUCT: ISDN CONTROLLER
PART NO: TINA-VME
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

Intelligent ISDN controller board with SO(UP80)
interface
Voice integration by an optional onboard a/b
adapter allows parallel processing and
transmission of voice and data
80C188 CPU
128/256 KByte EPROM
128 KByte dual ported static RAM

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: STOLLMANN
PRODUCT: FDDI CONTROLLER
PART NO: SICC-3-FDDI
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

68020 CPU
Two channels: one channel for an FDDI adapter
board; the other channel may be used for an
ethernet adapter to form an FDDI-to-Ethernet
gateway
TCP/IP

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: STOLLMANN
PRODUCT: ETHERNET CONTROLLER
PART NO: SIEC-802.3
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

Manages Ethernet control hardware
Supports network statistics gathering
Extensive onboard diagnostics
ARP (for address mapping)
TCP/IP

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: STOLLMANN
PRODUCT: DISK CONTROLLER
PART NO: SDC31
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

SMD/CMD/LMD disk controller with user programmable
interface
Soft sectored and Hard sectored track format
Transfer rate up to 10 Mbit/s
Controls two drives
Sector length software programmable up to one
complete track
Dual access option
Error correction logic for burst errors up to
11 bits in length

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

Fulfills all requirements of CDC specification
64712400 Rev. K

VMEbus PRODUCT RECORD

VENDOR: STOLLMANN
PRODUCT: DISK/TAPE CONTROLLER
PART NO: SDC40
TYPE: MASS STORAGE
CATEGORY: COTS

FEATURES:

Intelligent (SMD-E) disk/tape controller
Up to 25 Mbits/sec
Supports hard and soft sectors up to one track
in length
ECC, overlap seek, spiral formatting, and no
interleave
Controls up to 4 SMD drives

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

Fulfills CDC specification 6471 2402 Rev. D

VMEbus PRODUCT RECORD

VENDOR: TASCO
PRODUCT: SINGLE BOARD COMPUTER
PART NO: TVME-1750AP
TYPE: SINGLE BOARD COMPUTER
CATEGORY: MIL

FEATURES:

PACE 1750A microprocessor (20, 30, or 40 MHz)
Up to 1 Mbytes of on-board dual port static RAM
Two programmable RS-232/422 serial channels
A16/24:008/16 VMEbus Master interface
Interrupter and Interrupt Handler
Arbiter (Priority and Round Robin)
Eight JEDEC 32-pin sites for EPROM/EEPROM/RAM

MIL-SPECS AND MIL-STDS:

MIL-T-5400, Airborne Electronic Equipment
MIL-E-16400, Electronic IC and NAV Equipment

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-55C to +71C
NON-OPERATING TEMPERATURE:	
HUMIDITY:	0 to 100% condensing
VIBRATION - SINE:	Type 1, 4-33 Hz, 10g sine
VIBRATION - RANDOM:	5 - 2000 Hz
SHOCK:	15 g, 11ms
ALTITUDE:	70 000 feet

COMMENTS:

MIL-STD-415B
MIL-STD-167
MIL-I-45008
MIL-STD-1750B

VMEbus PRODUCT RECORD

VENDOR: TECNINT
PRODUCT: ANALOG I/O
PART NO: TVM-741
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

12 analog outputs
8 different analog inputs

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-25C to +85C
NON-OPERATING TEMPERATURE:	-65C to +150C
HUMIDITY:	0 to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	2g 5 to 5Hz
SHOCK:	50g peak for 11ms
ALTITUDE:	

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: TECNINT
PRODUCT: DIGITAL I/O
PART NO: TVM-742
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

64 optoisolated digital inputs
IEC 255 compliant

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-25C to +85C
NON-OPERATING TEMPERATURE:	-65C to +150C
HUMIDITY:	0 to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	2g 5 to 55Hz
SHOCK:	50g peak for 11ms
ALTITUDE:	

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: TECNINT
PRODUCT: DIGITAL I/O
PART NO: TVM-743
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

64 digital outputs, opto isolated
16 digital inputs, opto isolated
IEC 255 compliant

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-25C to +85C
NON-OPERATING TEMPERATURE:	-65C to +150C
HUMIDITY:	0 to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	2g 5 to 55Hz
SHOCK:	50g peak for 11ms
ALTITUDE:	

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: TECNINT
PRODUCT: COMMUNICATIONS CONTROLLER
PART NO: TVM-660
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

12 RS-232 or RS-422 optoisolated serial interfaces
On-board MC 68000 processor

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-25C to +85C
NON-OPERATING TEMPERATURE:	-65C to +150C
HUMIDITY:	0 to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	2g 5 to 55Hz
SHOCK:	50g peak for 11ms
ALTITUDE:	

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: TECNINT
PRODUCT: MEMORY BOARD
PART NO: TVM-531
TYPE: MEMORY
CATEGORY: RUG

FEATURES:

32 32-pin JEDEC sockets for SRAM, EPROM, or EEPROM

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:	-25C to +85C
NON-OPERATING TEMPERATURE:	-65C to +150C
HUMIDITY:	0 to 95% Non-condensing
VIBRATION - SINE:	
VIBRATION - RANDOM:	2g 5 to 55Hz
SHOCK:	50g peak for 11ms
ALTITUDE:	

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: TEXAS INSTRUMENTS
PRODUCT: CHASSIS
PART NO: 9200
TYPE: CHASSIS
CATEGORY: COTS

FEATURES:

9-Slot fully integrated, ruggedized enclosure
400 Watt power supply
Fans
J1/J2 monolithic backplane
Optional VSB

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: TEXAS INSTRUMENTS
PRODUCT: CHASSIS
PART NO: 9207
TYPE: CHASSIS
CATEGORY: COTS

FEATURES:

7-Slot fully integrated, ruggedized enclosure
400 Watt power supply
Fans
J1/J2 monolithic backplane
Optional VSB

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: TEXAS INSTRUMENTS
PRODUCT: CHASSIS
PART NO: 9300
TYPE: CHASSIS
CATEGORY: COTS

FEATURES:

9-Slot panel mount or wall mount
Integrated power supply

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: TEXAS INSTRUMENTS
PRODUCT: CHASSIS
PART NO: 9600
TYPE: CHASSIS
CATEGORY: COTS

FEATURES:

9-Slot panel mount card rack
J1/J2 monolithic backplane
Available with front or rear plug-in power supply
Top and bottom fan kits

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: OPTOCOUPLED ISOLATED INPUT
PART NO: TSVME 400
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- 48 optocoupled inputs
- Galvanic isolation 1500V
- Direct connection to switches or 2/3 wired proximity detectors
- Debouncing on each input
- Input protection by TRANSILS
- Input status display on front panel by 8 LEDs and rotary switch
- Two 37-pin Sub-D input connectors

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: RELAY OUTPUT
PART NO: TSVME 401
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- 32 relay outputs
- cut-off capability: 30 W 60 VA
- Contact protection by TRANSILS
- Galvanic isolation 1000V
- 12-bit analog output
- +/- 10 V output range
- Output status display on front panel by 8 LEDs and rotary switch
- Two 37-pin Sub-D connectors

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: ANALOG INPUT/OUTPUT
PART NO: TSVME 403
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

16 analog inputs and 8 analog outputs
12-bit resolution
4 us conversion time
Gain and offset software adjustable
Selectable voltage range: +/- 5V or +/- 10V
Relays for individual output disconnection and
protection
25-pin Sub-D output connector

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: TTL INPUT/OUTPUT
PART NO: TSVME 405
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- 64 TTL inputs/outputs split in 8x8 ports
- 16 handshake lines
- 8 timer lines
- Output software programmable in totem-pole or open collector
- Programmable level and vector interrupt generator
- Sockets for resistor network terminations
- Outputs on two 3M 50-pin connectors and on P2

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: ISOLATED LOGICAL INPUT
PART NO: TSVME 406
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- 16 highly isolated logical inputs
- 16 optocoupled inputs
- Isolation between inputs and logical ground: 1500V
- Isolation between inputs: 1500V
- Input voltage: 12 to 48 V
- Programmable debouncing, 0 to 16 ms
- Interrupt generation capability on rising and/or leading edge
- High isolation 32-pin DIN 41612 connector
- Front panel 16 input status display

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: ISOLATED LOGICAL OUTPUT
PART NO: TSVME 407
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- 16 highly isolated logical outputs
- 16 open drain VMOS transistor outputs
- Isolation between outputs and logical ground: 1500V
- Isolation between outputs: 1500V
- Output read-back capability with automatic output survey mode and interrupt generation on error
- Output current: 2A max
- Output voltage range: 12 to 60V
- Break voltage: 100V
- High isolation 48-pin DIN connector
- Front panel 16 output status display

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: OPTO-ISOLATED LOGICAL INPUT
PART NO: TSVME 408
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

48 opto-isolated logical inputs
Isolation between inputs and logical ground: 1500V
Input voltage: 24 to 48 V
Programmable debouncing
Interrupt generation capability on rising and/or
leading edge
Front panel input status display

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: MULTIPURPOSE INDUSTRIAL I/O BOARD
PART NO: TSVME 410
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- 24 opto-isolated logical inputs (12 to 24 V,
1000 V isolation) with debouncing and interrupt
capability on 12 inputs
- 24 opto-isolated outputs (12 to 50 V, 100 mA,
1000 V isolation)
- Five timers/counters
- Four 12-bit analog inputs (+/-5V, +/-10V, 0-10V, and
0 to 20 mA)
- One 12-bit analog output (+/-5V, +/-10V, 0-5V,
0-10V, and 0-20 mA)
- Two interrupters

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: ANALOG INPUT
PART NO: TSVME 420
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

- 32 analog inputs with high isolation
- 16 differential or 32 single ended inputs
- 12-bit resolution
- 1000V analog input/digital output isolation
- Interrupt generator
- Selectable level and programmable vector
- Resistor selectable gain: 1 to 1000
- Programmable gain: 1-10-100-1000
- High noise immunity
- Linearity: +/- .025%; Accuracy: +/-10mV to +/-10V
- Optional filtering and 0-20mA inputs

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: SERIAL I/O BOARD
PART NO: TSVME 500
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Four independent asynchronous serial ports
RS-232C/RS-422 20mA current loop interfaces
Software programmable baud rate: 50 to 38.4 Kbaud
Internal or external clock
Full or half duplex
Four 15-pin Sub-D connectors on front panel

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: INTELLIGENT SERIAL I/O BOARD
PART NO: TSVME 501
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Eight independent asynchronous RS-232C ports
IPC architecture
TS68000 microprocessor (16 MHz)
128 KByte dual port RAM, 0-wait state
Up to 9600 baud full duplex data transfers on all
channels simultaneously
Programmable level and vector interrupt generator
Single level Arbiter, 7-Level Interrupt Handler

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: SYNC/ASync COMMUNICATION CONTROLLER
PART NO: TSVME 531
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Two high level serial communication links w/DMA
IPC architecture
68010 (10 MHz) CPU
512 KByte dual port RAM with parity
Up to 128 KByte EPROM
Transmission speed up to 1 Mbps
Protocol types: IBM bisync, HDLC, SDLC
Local interrupt generated on last byte DRAM access
Self-test and debug monitor on two EPROMs

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: X.25 COMMUNICATION CONTROLLER
PART NO: TSVME 541
TYPE: INPUT/OUTPUT
CATEGORY: COTS

FEATURES:

Two high level links with DMA
400 packets at 64 Kbps
X.25 (REV 1984) software levels 1-2-3
Configuration parameters at initialization
Up to 32 virtual circuits per link
Master/Slave handshake
IPC architecture
68010 (10 MHz) CPU
512 KByte dual port RAM with parity

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: ETHERNET CONTROLLER BOARD
PART NO: TSVME 550
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

68010 (10 MHz) CPU
512 KByte DRAM, 0-wait state
64 KByte EPROM
Compatible with IEEE 802.3 and Ethernet 1.0
TCP/IP software and UNIX system V driver available

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: DUAL PORT ETHERNET CONTROLLER
PART NO: TSVME 551
TYPE: LOCAL AREA NETWORK
CATEGORY: COTS

FEATURES:

- 68020 (16 MHz) CPU
- Up to 512 KByte 0-wait state local SRAM
- 256 KByte EPROM
- 2 KByte EEPROM for configuration parameter storage and backup
- 1 MByte 5-port memory
- DMA controller with 20 MByte per second burst rate capability
- Two independent Ethernet controllers (LANCES)
- Two RS-232C serial ports
- VMEbus Interrupter and Interrupt Handler

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: DRAM MEMORY BOARD
PART NO: TSVME 202
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

2 MByte interleaved DRAM w/parity
175 ns write access time, 230 ns read access time
Byte parity checking
Two independent memory banks
Hidden refresh
User selectable memory map assignment

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: SRAM MEMORY BOARD
PART NO: TSVME 203
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

256 KByte static RAM
210 ns read/write access time
Battery back-up: retention time 2-4 months

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: RAM/EPROM MEMORY BOARD
PART NO: TSVME 204
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

- 24 28-pin JEDEC sockets
- Three independent memory banks
- Supports any type RAM, EPROM, or EEPROM
- Bus time-out on EPORM write attempt

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

- OPERATING TEMPERATURE:
- NON-OPERATING TEMPERATURE:
- HUMIDITY:
- VIBRATION - SINE:
- VIBRATION - RANDOM:
- SHOCK:
- ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: RAM/EPROM MEMORY BOARD
PART NO: TSVME 205
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

16 28- or 32-pin JEDEC sockets
Two independent memory banks
Supports any type RAM, EPROM, OTP, PROM, EEPROM

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: SRAM MEMORY BOARD
PART NO: TSVME 206
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

4 MBytes CMOS static RAM
160 ns read, 60 ns write access time
Battery back-up: retention time - 2 months

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: DRAM MEMORY BOARD
PART NO: TSVME 208
TYPE: MEMORY
CATEGORY: COTS

FEATURES:

8 MByte DRAM
170 ns read/50 ns write access time
Byte parity checking
Hidden refresh
Interleaving between boards capability

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: MICROCOMPUTER
PART NO: TSVME 101
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68000 (8 MHz) CPU
Eight byte-wide memory sockets
Triple programmable timer
Two RS-232 serial channels
Single level Arbiter

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: MICROCOMPUTER
PART NO: TSVME 104
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68010 (12.5 MHz) CPU
Up to 2 MByte 0-wait state dual port RAM w/parity
68881 FPC
Multiprocessing capability
Four RS-232C serial ports
Up to 128 KByte EPROM
Single level bus Arbiter
7-Level Interrupt Handler
Programmable level and vector interrupt generator

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: MICROPROCESSOR
PART NO: TSVME 110
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68000 (8 MHz) or 68010 (12.5 MHz) CPU
VLSI VMEbus interface chip and board control logic
Eight 28- or 32-pin JEDEC sockets
Two synchronous/asynchronous ports
Triple timer
PIT 68230 DIL chip
Floppy disk controller
SCSI interface

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: MICROCOMPUTER
PART NO: TSVME 120
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68020 (16 MHz) CPU
68881 FPC
1 MByte DRAM
Dual port RAM with parity
Four RS-232C serial ports
Up to 512 KByte EPROM
4-Level bus Arbiter, 7-Level Interrupt Handler
Programmable level and vector interrupt generator
Location monitor

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: MICROCOMPUTER
PART NO: TSVME 121
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68020 (20 MHz) CPU
68881 FPC
1 MByte 0-wait state dual port RAM
Four RS-232C serial ports
Up to 512 KByte EPROM
4-Level bus Arbiter, 7-Level Interrupt Handler
Programmable level and vector interrupt generator
Location monitor

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: MICROCOMPUTER
PART NO: TSVME 123
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68020 (16 MHz) MPU
Up to 512 KByte 0-wait state local memory
1 MByte of quad ported memory
Hard wired 32-bit DMA
20 MByte per second VME burst access to memory
Command FIFO
Extension bus

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: MICROCOMPUTER
PART NO: TSVME 130
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68030 (20 or 25 MHZ) MPU
Up to 4 MByte dual ported DRAM
68882 FPC
Four RS-232C serial ports
Two timers
Four 32-pin JEDEC sockets for EPROM
2 KByte RAM
VIC based VME interface
Optional Centronics interface

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: MICROCOMPUTER/ETHERNET INTERFACE
PART NO: TSVME 133
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68030 (20 or 25 MHz) CPU
68882 Floating Point Coprocessor
512 KByte 0-wait state local memory
1-8 MByte shared memory, 0-wait state burst fill
256 KByte dedicated Ethernet buffer
Ethernet interface
SCSI and Floppy disk interface
Four multi-protocol serial ports
Four 32-pin JEDEC sockets, up to 512 KByte EPROM
2 KByte RAM
Centronics interface
VME bus controller functions

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: SINGLE BOARD COMPUTER FAMILY
PART NO: TSVME 14x
TYPE: SINGLE BOARD COMPUTER
CATEGORY: COTS

FEATURES:

68040 (25 or 33 MHz) CPU
128 KByte cachable SRAM, 0-wait state line accesses
4 MByte cachable, shared DRAM, 1-wait state
4 MByte dual ported DRAM
Cheapernet and DMA Ethernet interfaces
SCSI interface with local DMA and private buffer
Two multi-protocol serial ports
Centronics interface
Up to 2 MByte EPROM
Three 16-bit timers
Full arbiter

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: GRAPHICS PROCESSOR
PART NO: TSVME 600
TYPE: VIDEO/GRAPHICS
CATEGORY: COTS

FEATURES:

TS 68483
1024 x 512 x 4 color bit map
1024 x 512 x 1 masking bit map
1 M pixel vector drawing speed
4 M pixels area filling speed
680 x 512 or 640 x 480 pixel resolution
65 Hz interlaced or 55 Hz non-interlaced scanning
16 out of 4096 colors
14 character sets
Two RS-232C serial ports and one Centronics port
Virtual device interlaced (VDI) software on two
EPROMS

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: GRAPHICS PROCESSOR
PART NO: TSVME 603
TYPE: VIDEO/GRAPHICS
CATEGORY: COTS

FEATURES:

TS 68483
1024 x 1024 x 8 video RAM color bit map
1024 x 1024 x 2 masking bit map
0.6 M pixels vector drawing speed w/8 bits/pixel
5 M pixels area filling speed with 8 bits/pixel
1024 x 768 or 1024 x 1024 pixel resolution
65 Hz non-interlaced scanning
256 colors out of 16 million
14 character sets
68010 (12.5 MHz) CPU; Master/Slave handshake
512 KByte dual port DRAM, 0-wait state
128 KByte EPROM; 2 serial ports; VDI

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: VIDEO ACQUISITION BOARD
PART NO: TSVME 630
TYPE: VIDEO/GRAPHICS
CATEGORY: COTS

FEATURES:

Real time edge detection based on specific gate
arrays
sobel gradient calculation and edge detection
Two storage memory planes
Video input 50Hz, 60Hz, or single shot
Eight look-up tables of 256 words of 8 bits
Video output
Memory window access capability without X and Y
address calculation
Software library provided on two EPROMs

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: THEMIS
PRODUCT: ETHERNET DUAL PORT CONTROLLER
PART NO: TSVME 5000
TYPE: LOCAL AREA NETWORK
CATEGORY: RUG

FEATURES:

Circuit board heat pipe conduction cooling
68020 (16 MHz) CPU
128 KByte 0-wait state local SRAM
256 KByte EPROM
2 KByte EEPROM for configuration parameter storage
and backup
1 MByte dual ported DRAM
Two independent Ethernet controllers (LANCes)
Two serial ports
VIC068 VMEbus controller

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE: -40 C to + 85 C
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: TRANSMAGNETICS INC
PRODUCT: SYNCHRO RESOLVER TO DIGITAL
PART NO: 5412 M Series
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:
 3 channels
 16-bit output

MIL-SPECS AND MIL-STDs:
 MIL-STD-883, Microelectronics Test Methods/Procedures

ENVIRONMENTAL CHARACTERISTICS:
 OPERATING TEMPERATURE:
 NON-OPERATING TEMPERATURE:
 HUMIDITY:
 VIBRATION - SINE:
 VIBRATION - RANDOM:
 SHOCK:
 ALTITUDE:

COMMENTS:
 Thermal management layer conducts heat from chips
 to enclosure

VMEbus PRODUCT RECORD

VENDOR: TRANSMAGNETICS INC
PRODUCT: DIGITAL TO SYNCHRO RESOLVER
PART NO: 5412M Series
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:

3 channels
16-bit

MIL-SPECS AND MIL-STDS:

MIL-STD-883, Microelectronics Test Methods/Procedures

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: TRANSMAGNETICS INC
PRODUCT: 2-SPEED SYNCHRO RESOLVER TO DIGITAL
PART NO: 5412 M Series
TYPE: INPUT/OUTPUT
CATEGORY: RUG

FEATURES:
 3 channels
 16-bit

MIL-SPECS AND MIL-STDs:
 MIL-STD-883, Microelectronics Test Methods/Procedures

ENVIRONMENTAL CHARACTERISTICS:
 OPERATING TEMPERATURE:
 NON-OPERATING TEMPERATURE:
 HUMIDITY:
 VIBRATION - SINE:
 VIBRATION - RANDOM:
 SHOCK:
 ALTITUDE:

COMMENTS:
 Thermal management layer conducts heat from chips
 to enclosure

VMEbus PRODUCT RECORD

VENDOR: ZOLTECH CORPORATION
PRODUCT: CHASSIS
PART NO: VSV-11
TYPE: CHASSIS
CATEGORY: COTS

FEATURES:

Rack, desktop, or tower mount
5-Slot 6U VME cardcage
Front or rear access
Power supply to 500 Watts
Mounting space and hardware for 5" and 8" drives
Up to four cooling fans
FCC compliant

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ZOLTECH CORPORATION
PRODUCT: CHASSIS
PART NO: VCV-11
TYPE: CHASSIS
CATEGORY: COTS

FEATURES:

Rack, desktop, or tower mount
5-Slot 6U VME cardcage
Front or rear access
Power supply to 300 Watts
Two cooling fans
Mounting space and hardware for 5" and 8" drives
FCC compliant

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ZOLTECH CORPORATION
PRODUCT: CHASSIS
PART NO: VLV-11
TYPE: CHASSIS
CATEGORY: COTS

FEATURES:

Rack, desktop, or tower mount
12-Slot 6U VME card cage
Power supply to 1000 Watts
Mounting space for 5" and 8" drives
Up to 8 cooling fans
FCC compliant

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ZOLTECH CORPORATION
PRODUCT: CHASSIS
PART NO: VHV-11
TYPE: CHASSIS
CATEGORY: COTS

FEATURES:

Rack, desktop, or tower mount
12-Slot 6U VME card cage
Front or rear access
Power supply to 500 Watts
Four cooling fans
Mounting space for 5" and 8" drives
FCC compliant

MIL-SPECS AND MIL-STDs:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS:

VMEbus PRODUCT RECORD

VENDOR: ZOLTECH CORPORATION
PRODUCT: POWER SUPPLY
PART NO: POW-AIR-PAK
TYPE: POWER SUPPLY
CATEGORY: COTS

FEATURES:

Power supply/fan/control panel module for rack
mounted VME card cages
Provides 300 CFM filtered cooling air
Additional 100 CFM fan dedicated to power supply
300-700 Watt power supply (+5V,+12V,-12V)
Control panel contains Reset, Abort, DC Power, and
Sysfail indicator lamps

MIL-SPECS AND MIL-STDS:

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE:
NON-OPERATING TEMPERATURE:
HUMIDITY:
VIBRATION - SINE:
VIBRATION - RANDOM:
SHOCK:
ALTITUDE:

COMMENTS: