PORTABLE VME WORKSTATION

CVC-4000

A rugged, self-contained VME System Platform, portable or rack-mount. Features include an 8-Slot 6U backplane, integral flat-panel display, embedded peripherals and keyboard with trackball.

The CVC-4000 is designed for end-users and system integrators who require high-performance computer platforms for ruggedized and harsh environment applications. The CVC-4000 incorporates an 8-slot (6U) backplane and state-of-the-art flat-panel displays, including: Electroluminescent grey scale (standard) with Thin Film Transistor (TFT) color active matrix and LCD monochrome options. The system also accommodates up to four high-performance front-accessed peripherals and the industry's most flexible and reliable power supply design. Additional features include: Optional keyboards, Shock isolated peripherals, Monocoque chassis, and optional MIL-STD-461B/TEMPEST upgrade. Various open-system architectures make the CVC-4000 the industry's most powerful and flexible portable computer system.

Architecture: Utilization of the 6U VME and VME/S-Bus 8-slot backplanes support integration of SUN Sparc, Intel (80X86), Motorola (680X0), and 88000 configurations.

Display: The CVC-4000 system accommodates a variety of display technologies. This includes the optional active matrix color flat-panel utilizing VGA-compatible Thin Film Transistor (TFT) technology. MDA, CGA, EGA, VGA grayscale and VGA color displays are all configuration options.

Keyboard: The CVC-4000 utilizes Cyberchron's ruggedized keyboard with an integral trackball. This keyboard includes full travel, tactile feedback switching for ease of use and high reliability.

Power Supply: The CVC-4000 incorporates a proprietary high-compliance power supply which can be configured for either AC or DC power input. The standard supply can accommodate a wide range of voltage inputs and frequencies.

FEATURES & OPTIONS:

✓ 100% SUN 1E and 2E (VME) compatible.
✓ Motorola (680X0) CPU's from 10 to 50 MHz.
✓ PC-DOS, MS-DOS, OS/2, UNIX, Xenix, Open Desk Top, SUN O/S, Real-Time Kernels.
✓ Monochrome, Grayscale, and Color displays; CGA, MDA, EGA or VGA.
✓ Ruggedized to MIL-STD’s 810E, 167-1, 901C, 2036.
✓ Ruggedized keyboards, with or without trackballs.
✓ 4 front-accessed removable peripherals, 1 embedded peripheral.
✓ Optional Tape, Disk and Solid-state storage subassemblies.
✓ AC or DC high-compliance power supply.
✓ Portable and 19" rack mountable.
✓ Designed to meet TEMPEST, MIL-STD-461B options.

Ruggedized Computer Systems and Solutions

CYBERCHRON
The Rugged Edge™

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CVC-4000 SPECIFICATIONS

MECHANICAL
Dimensions
10.5"H x 16.56"W x 19.5"D (RETMA rack mount)
Weight
50 - 65 Lbs, configuration dependant

CENTRAL PROCESSOR & OPTIONS
VME & MULTIBUS compatible architectures
SUN SPARCstation 1E, 2E
Motorola 680X0
88000 RISC
80286, 80386, 80486

ELECTRICAL REQUIREMENTS
Input Voltage, Standard
86-126 VAC / 165-242 VAC or Dual Range
Input Voltage, Optional
24, 28, 48 VDC, 3-phase AC, Dual-Mode AC/DC
AC Input Frequency
47-400 Hz, continuous
Grounding
Single Point, Per NACSIM 5100A and MIL-STD 461B

INTERNAL DISPLAY CONFIGURATIONS
Grey Scale (VGA), Standard
640 x 480 Electroluminescent, 16 shades of gray
Color (VGA), Optional
640 x 480 Thin Film Transistor (TFT) Active Matrix
Monochromatic (EGA), Optional
640 x 350 Electroluminescent
High-resolution, Optional
1152 x 900 LCD

EXTERNAL DISPLAY CONFIGURATIONS
Ruggedized Color Monitors
Cyberchron CRM-16 & CRM-19 (to 1280 x 1024)

COMMUNICATION INTERFACES
I/O Ports
All commercial interfaces, such as RS-422, RS-423, RS-232,
Centronics, NTDS, MIL-STD-1553, IEEE 802.3 (Ethernet), IEEE
802.5 (Token Ring), RS-170, X.21, X.25, V.35
SCSI, SCSI-II, ESDI, SA-450, SA-460, IPI, IDE, ST-506.RLL,
MFM, Cipher/Pertec, NTDS

KEYBOARD
Peripheral Interfaces
101 Key dust/drip-proof, fold-out/detachable with trackball; SUN,
DEC, or IBM compatible

PERIPHERAL OPTIONS
Disk Drives
Accommodates 1 embedded and 4 Accessible/removable peripherals.
Floppy Drives
3½" and 5¼"; capacities range from 20MB to over 1GB per device.
Tape Drives
¼" and 4mm DAT
Optical Drives
CD-ROM in 5 ¼", 3½", & 2", up to 800MB
Solid State
FLASH, EEPROM, BUBBLE, Flash Card, up to 40MB

ENVIRONMENTAL *
Temperature, Operating
-25 to +50° C, with optional low-temperature equipment
Temperature, Non-Operating
-55 to +71° C
Humidity, Operating
0 to 95%, non-condensing
Humidity, Non-Operating
0-100%, non-condensing
Altitude
0 to 15,000 feet, no explosive decompression
Shock, Operating
20 G's, 11 msecs (MIL-STD-810E)
Shock, Non-Operating
75 G's, 11 msecs (MIL-STD-810E)
Vibration, Operating
1.25 G's at 3-50 Hz, 2.25 G's at 50-2000 Hz
Vibration, Non-Operating
Compliant to MIL-STD-810E for tactical wheeled vehicle; Compliant
to MIL-STD-167-1, type 1; MIL-STD-810E, 901C, 2036

EMI/EMC
Standard
FCC, Designed to meet Class A, Class B
Optional, MIL-STD
461B Class A1, A3, A4, A5, B

* Peripheral dependant

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The company policy is one of continuous product development. We reserve the right to supply improved products which may vary from those described herein. Not responsible for typographical errors.