



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

Peripheral Interfaces

SCSI, SCSI-II, ESDI, SA-450, SA-460, IPI, IDE, ST-506.RLL, MFM, Cipher/Pertec, NTDS

KEYBOARD

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 5¼", 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 msec (MIL-STD-810E)

Shock, Non-Operating

75 G's, 11 msec (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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