

MRCD-106 Rugged Computer & Display

Description

MILPER's MRCD-106 is a high performance, one-piece ruggedized computer/Workstation designed specifically for military tactical field and strategic applications. The system is based on a passive backplane with Single Board Computer. And 19" LCD Display. It is constructed in an environmentally resistant package. The MRCD-106 is ideally suited for sheltered, Airborne or Naval applications.



FEATURES

- > **CPU** -Intel® Pentium® 4 processor with Hyper Threading Technology, 2.0GHz ~ 3.2GHz+
- > **Front Side Bus** - 800MHz/533MHz/400MHz
- > **Chipset** - Intel® 875P chipset
- > **L2 Cache** - 256K/512K, CPU integrated
- > **BIOS** - Award BIOS, ACPI supported
- > **System Memory** Two sockets supports up to 2GB DDR266/333/400 memory Supports dual channel, ECC function
- > **Micro AGP VGA** - ATI Mobility M10 VGA, AGP8X, 64MB frame buffer (DDR) via IBA110-64A, supports CRT, LVDS, TV-out, 2nd CRT
- > **Primary LAN** - Intel® 82551QM 10/100Mb Ethernet controller
- > **Secondary LAN (optional)** - Intel® 82547GI Gigabit Ethernet controller.
- > **Audio** - ICH5R integrated audio with AC97 codec, ALC650 Supports 5.1 channel
- > **LPC I/O** - Winbond 83627HF LPC I/O supports IrDA, LPT, Com1 (RS232), COM2 (RS232/422/485), FDC and hardware monitoring.
- > **IDE Interface** - ICH5R built-in IDE1, IDE2 (Ultra DMA 33//66/100).
- > **FDD Interface** - Supports up to two floppy disk drives: 3.5" and/or 5.25" drives; 3 Mode support
- > **Parallel Port** - One parallel port supports SPP/EPP/ECP.
- > **Serial Ports** - One RS-232/422/485 and one RS-232 port
- > **Serial ATA** - Two SATA ports, support RAID0 or RAID1
- > **Watchdog Timer** - Generates system reset; 256 levels
- > **Solid State Disk Interface** - (Optional) DiskOnChip socket, supports up to 288MB
- > **Hardware Monitoring** - Built in W83627HF; monitors system/CPU temperature and voltage status
- > **USB** - Supports 4 USB ports, USB 2.0 compliant

> Monitor

- > **LCD Panel**
Effective Display - 19" / 48.2. cm diagonal
Horizontal Pitch - 0.255x0.255 mm
LCD Panel Type - TFT Active Matrix, 1280x (R.G.B.) x 1024 R.G.B. vertical stripe Non glare hard coated
- > **Video dot rate** - 135 MHz.
- > **Optical Characteristics @ 25 °C**
Contrast ratio 500:1 typical
Brightness 250 nits (typ.)
Viewing angle at contrast ratio > 5:1
Up 85°
down 85°
left 85°
right 85°

> Resolution and preset modes

Maximum resolution factory preset modes	1280		
Resolution	H. freq.	Refresh Rate	
720*400	31.469	70.000	
640*480	31.469	60.000	
640*480	37.861	72.000	
640*480	37.500	75.000	
800*600	37.879	60.000	
800*600	48.077	72.000	
800*600	46.875	75.000	
1024*768	48.363	60.000	
1024*768	56.746	70.000	
1024*768	60.023	75.000	
1280*1024	63.981	60.000	
1280*1024	79.976	75.000	
1152*864	67.500	75.000	



> Peripherals

- > CD-ROM – Low Profile CD-DVD
- > Hard Disk – 60 GB Internal Fix.
- > Additional Interfaces slots Four Slots, accept PCI printed circuit modules that are available for all PC compatible computers.

OPTIONS

- 40 or 60 GByte Removable Disk
- MIL-STD-1553 Interface
- ARINC 429 Interface
- IEEE 488 Interface
- IEEE
- Small Computer System Interface (SCSI)
- PCMCIA Interface and Cradle.
- FLASH Memory .
- 115/230 VAC 47-440 Hz Power.

ENVIRONMENTAL CHARACTERISTICS

TEMPERATURE

Operating:	-18 - +55 °C
Intermittent:	-20 - +65 °C
Non Operating:	-30 - +71 °C

HUMIDITY

Operating/Storage	MIL-STD-810C, Method 507.1 Proc. I, 95% RH (non condensation)
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VIBRATIONS

Hard Mount:	MIL-STD-810D, Method 514.3, Category 4, Table 514.3-II & Fig. 514.3-25A
Shock Tray Mount:	MIL-STD-810D, Method 514.3, Category 6.

SHOCK

Operating:	MIL-STD-810D, Method 516.4, Proc. I, -15g 11ms. Saw Tooth
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EXPLOSIVE MIL-5400, Par. 3.2.2.4.10

EM/RFI

MIL-STD-461, Class 3

DRIP PROOF

MIL-STD-810E

ALTITUDE

Operating:	15,000 ft.
Non Operating:	40,000 ft.

PHYSICAL CHARACTERISTICS

SIZE	10U H x 19" W x 6" D
WEIGHT	15 Kg.
POWER	20 - 30 VDC, 230VAC 50/60Hz Optional.

Specifications are subject to change without notice