

*Total Solution for Rugged & Mil-Spec Computers and Peripherals*

## **MRC-120/4**

### **Rugged Computer**

#### **FEATURES**

- Multi Pentium. Microprocessor Operating at 850 - 2400 MHz.
- Memory to 2 Gbyte
- Single or Multi Passive Backplane.
- Multi Processors.
- Complete Array of Rugged Peripherals
- Rack Mount and Shock Tray Kits Available.

#### **DESCRIPTION**

MILPER's MRC-120, is a Family of high performance, one piece ruggedized computer designed specifically for military tactical field and strategic applications. The computer is based on Single or Multi passive ISA and ISA/PCI Back planes each with Single Board Computers. It is PC/AT compatible in an environmentally resistant package.

The standard MRC-120 features a drip proof keyboard, a 40 GB hard disk drive and 1024 Mbyte of RAM. Standard interfaces include two serial RS-232, one parallel and one VGA. Up to 14 slots accept printed circuit modules that are available for all PC/AT compatible computers. This allows for the attachment of a wide range of compatible peripherals, accessories and interfaces. The MRC-124 can run MS-DOS, SCO UNIX, QNX, WINDOWS Linux or any



other operating system designed for the PC.

The standard MRC-120 operates from 20 - 30 VDC power source. With dimensions of only 7" (4U) high x 17" (19" Rack) wide x 22" deep, the MRC-120 is ideally suited for sheltered or outdoor field use. The MRC-120 can be fitted with a kit with slides to satisfy those applications requiring rack mount option, or with table top mounting kit for applications requiring to survive tougher environments.

#### **PERFORMANCE**

#### **UPGRADEABILITY**

The MRC-120 passive backplane allows an easy replacement of the CPU board to any Pentium SBC operating at 850 to 2400 MHz. The backplane is upgradeable to a variety of ISA/PCI backplane.



## KEYBOARD

The MRC-120 features full-size, PC compatible QWERTY keyboard. The keyboard is drip proof, has full-travel keys with tactile feedback and integral pointing device.

## OPTIONS

- 60 Gbyte Removable Disk
- MIL-STD-1553 Interface
- ARINC 429 Interface
- IEEE 488 Interface

- RS-422 Interface
- Small Computer System Interface (SCSI)
- PCMCIA Interface and Cradle.
- FLASH Memory .
- 115/230 VAC 47-440 Hz Power.
- Consult Factory for Other Options.

---

## ENVIRONMENTAL CHARACTERISTICS

### TEMPERATURE

<b>Operating:</b>	-18 - +55 °C
<b>Intermittent:</b>	-20 - +65 °C
<b>Non Operating:</b>	-30 - +71 °C

### HUMIDITY

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

### VIBRATIONS

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

### SHOCK

<b>Operating:</b>	MIL-STD-810D, Method 516.4, Proc. I, -15g 11ms. Saw Tooth
-------------------	---

### EXPLOSIVE

MIL-5400, Par. 3.2.2.4.10

### EMI/RFI

MIL-STD-461, Class 3

### DRIP PROOF

MIL-STD-810E

### ALTITUDE

<b>Operating:</b>	15,000 ft.
<b>Non Operating:</b>	40,000 ft.

## PHYSICAL CHARACTERISTICS

### SIZE

7" H x 17" W x 20" D

### WEIGHT

Up to 20 Kg.(Depend on configuration)

### POWER

20 - 30 VDC  
90 - 230 Volts 47 - 440 Hz - Optional

These specifications are subject to change without notice