

# MRC-108

## Rugged Computer

### FEATURES

- Single Or Dual Pentium. Microprocessor Operating at 850 –1200 MHz.
- Memory to 1Gbyte
- 8 Slots Passive Backplane.
- Complete Array of Rugged Peripherals
- Rack Mount and Shock Tray Kits Available.

### DESCRIPTION

MILPER's MRC-108, is a high performance, one piece ruggedized computer designed specifically for military tactical field and strategic applications. The computer is based on a passive ISA/PCI backplane with Single Board Computer. It is PC/AT compatible in a lightweight, environmentally resistant package.

The standard MRC-108 features a drip proof keyboard, 3 1/2" 1.44 MByte flexible disk drive, a 20 GB hard disk drive and 256 Mbyte of RAM. Standard interfaces include two serial RS-232, one parallel and one VGA. Eight slots backplane (Six available) accept printed circuit modules that are available for all PC/AT compatible computers. This allows for the attachment of a range of compatible peripherals, accessories and interfaces. The MRC-108 can run MS-DOS, SCO UNIX, QNX, WINDOWS or any



other operating system designed for the PC. The standard MRC-108 operates from 20 - 30 VDC power source. With dimensions of only 7" high x 9" wide x 20" deep, the MRC-108 is ideally suited for sheltered or outdoor field use. The MRC-108 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-108 passive backplane allows an easy replacement of the CPU board to any State of the art Pentium based SBC. The backplane is upgradeable to a variety of combinations of ISA/PCI, ISA, PCI slots.



## KEYBOARD

The MRC-108 features full-size, PC compatible QWERTY keyboard. The keyboard is drip proof, has full-travel keys with tactile feedback and integral pointing device.

- IEEE 488 Interface
- Small Computer System Interface (SCSI)
- PCMCIA Interface and Cradle.
- FLASH Memory .
- 115/230 VAC 47-440 Hz Power.

## OPTIONS

- 20 Gbyte Removable Disk
- MIL-STD-1553 Interface
- ARINC 429 Interface

---

## 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)

### 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

EXPLOSIVE MIL-5400, Par. 3.2.2.4.10

EMI/RFI MIL-STD-461, Class 3

DRIP PROOF MIL-STD-810E

### ALTITUDE

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

## PHYSICAL CHARACTERISTICS

SIZE 7" H x 12" W x 20" D

WEIGHT 10 Kg.

POWER 20 - 30 VDC

These specifications are subject to change without notice  
Nov-02