

MRC-106

Rugged Computer

FEATURES

- Pentium. Microprocessor Operating at 850 – 1700 MHz.
- Memory up to to 2 Gbyte
- 6 Slots Passive Backplane.
- Complete Array of Rugged Peripherals
- Rack Mount and Shock Tray Kits Available.

DESCRIPTION

MILPER's MRC-106, 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 backplane with Single Board Computer. It is PC/AT compatible in a lightweight, environmentally resistant package.

The standard MRC-106 features a drip proof keyboard, 3 1/2" 1.44 MByte flexible disk drive, a 2 GB hard disk drive and 16 Mbyte of RAM. Standard interfaces include two serial RS-232, one parallel and one SVGA. Six ISA slots (five 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-106 can run MS-DOS, SCO UNIX, QNX, WINDOWS or any



other operating system designed for the PC. The standard MRC-106 operates from 20 - 30 VDC power source. With dimensions of only 7" high x 9" wide x 20" deep, the MRC-106 is ideally suited for sheltered or outdoor field use. The MRC-106 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-106 passive backplane allows an easy replacement of the CPU board to a Latest Pentium SBC operating at the maximum available clock speed. The backplane is upgradeable to a ISA/PCI having 2 ISA, one ISA/PCI and 3 PCI slots.

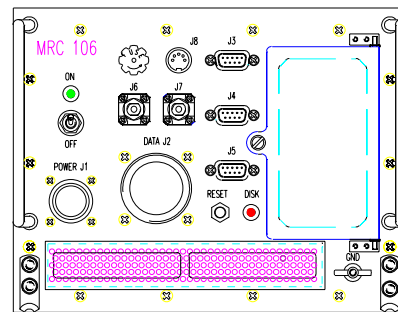
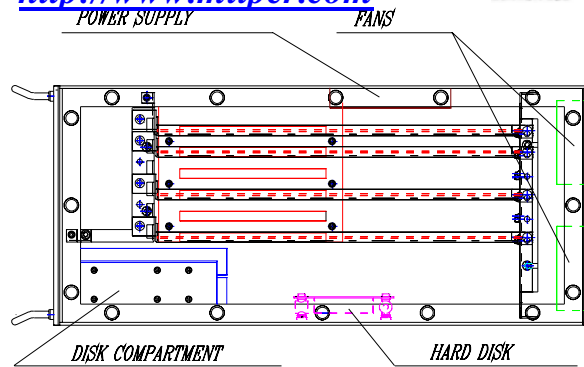


KEYBOARD

The MRC-106 features full-size, PC compatible QWERTY keyboard. The keyboard is drip proof, has full-travel keys with tactile feedback and integral pointing device.

OPTIONS

- 20 GByte Removable Disk
- MIL-STD-1553 Interface
- ARINC 429 Interface
- IEEE 488 Interface
- 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)

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 9" W x 20" D
 WEIGHT 10 Kg.
 POWER 20 - 30 VDC

These specifications are subject to change without notice