

Total Solution for Industrial, Rugged & Mil-Spec Computers and Peripherals

MRC-105

Rugged Airborne Computer

FEATURES

- Pentium Microprocessor
- Operating up to 3 GHz.
- Memory to 1024 Mbyte.
- Passive Backplane
- Complete Array of Rugged Peripherals
- Rack Mount and Shock Tray Kits Available

DESCRIPTION

MILPER's MRC-105, is a high performance, ruggedized computer designed specifically for military tactical airborne and strategic applications. The computer is based on a passive ISA - ISA/PCI backplane with Single Board Computer. It is PC compatible in a lightweight, environmentally resistant package.

The standard MRC-105 features a drip proof keyboard, a Removable 40 Gbyte hard disk and 256 Mbyte of RAM. Standard interfaces include two serial RS-232, one parallel and one xVGA. Five slots accept printed circuit modules that are available for all PC compatible computers. This allows for the attachment of a range of compatible peripherals, accessories and interfaces. The MRC-105 can run MS-DOS, SCO UNIX, QNX, MS-WINDOWS or any other operating system designed for the PC.



The standard MRC-105 operates from 20 - 30 VDC power source. With dimensions of only 7.5" high x 7" wide x 18" deep, the MRC-105 is ideally suited for sheltered or outdoor field use. The MRC-105 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-105 passive Backplane allows an easy replacement of the CPU board to the state of the art processor board operating at the highest clock rate.

KEYBOARD

The MRC-150 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
- HOO9 Interface.
- ARINC 429 Interface
- Video Frame Graber.
- IEEE 488 Interface
- Small Computer System Interface (SCSI)
- 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

Temperature MIL-E-5400T

Altitude

Altitude	
Operating	45,000 ft.
Non Operating	60,000 ft.

Vibrations

Hard Mount	MIL-STD-810E, Method 514.4, Propeller Jet Aircraft.
Shock Tray Mount	MIL-STD-810E, Method 514.4, Helicopter.

Shock	MIL-STD-810E, Method 516.4, Proc. I, -15g 11ms. Saw Tooth
Explosive	MIL-5400T
EMI/RFI	MIL-STD-461, Class 3
Drip Proof	MIL-STD-810E, Method 506.3
Humidity	MIL-STD-810E, 95% RH (Non Condensing)

PYSICAL CHARACTERISTICS

DIMENSIONS	7'' H x 7'' W x 18'' D
WEIGHT	10 Kg.
POWER	20-30 VDC

These specifications are subject to change without notice