

# MMRC-106

## Rugged Computer

### FEATURES

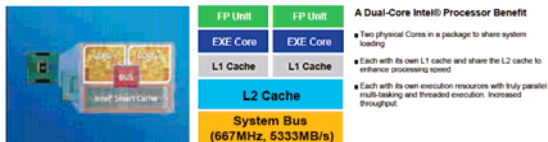
- Pentium Core Duo Microprocessor
- Memory to 2 Gbyte.
- Passive Backplane
- Complete Array of Rugged Peripherals
- Rack Mount and Shock Tray Kits Available

### Description

MILPER's MMRC-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 backplane with Single Board Computer. It is PC compatible in a lightweight, environmentally resistant chassis.

The standard MMRC-106 features:

- **CPU** - Intel® Core™2 Duo, Core™ Duo/Solo with 533/667 MHz FSB



- **System Chipset** - Intel® 945GM + ICH7M
- **BIOS** - AMI Flash BIOS
- **System Memory** - DDRII 400/533/667 MHz up to 2GB
- **Ethernet** - Dual Broadcom BCM5787 PCI express GbE with ASF2.0 remote control support (FO – Optional)
- **I/O Interface** - 2 x RS232, 7 x USB 2.0, 1 x IDE (2 x IDE, 1 X LPT, 2 x SATAII (4 x SATAII by JMB363 WSB-9452S/9452S-DVI Only), 1 Onboard PCI Express Mini card, 1 x PS/2 for KB/MS,
- **Digital I/O** - 8 bit digital I/O, 4 input / 4 output
- **Display** - VGA integrated in Intel® 945GM (DVI Optional)
- **LVDS**, Dual Channel 18-bit LVDS
- **Audio** - 5.1 Channel Audio Kit with Realtek ALC655
- **Watchdog Timer** - Software programmable supports 1~255 sec. system reset



### Complete Array of Rugged Peripherals

- **Hard disk drive** – 60 GB
- **Integrated CD/DVD Drive**
- **Expansion Slots** - 3 PCI Accept printed circuit modules that are available for all PC/AT compatible computers.

The standard MMRC-106 operates from 20 - 30 VDC power source. With dimensions of only 7" high x 6.5" wide x 17" deep, the MMRC-106 is ideally suited for sheltered or outdoor field use. The MMRC-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 MMRC-106 passive backplane allows an easy replacement of the CPU board to a Latest SBC operating at the maximum available clock speed.



## OPTIONS

- 120 GByte Hard Disk
- MIL-STD-1553 Interface
- ARINC 429 Interface
- IEEE 488 Interface
- Small Computer System Interface (SCSI)
- PCMCIA Interface and Cradle.
- FLASH Memory .

---

## 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
------------	--

<b>EXPLOSIVE:</b>	MIL-5400, Par. 3.2.2.4.10
-------------------	---------------------------

<b>EMI/RFI:</b>	MIL-STD-461
-----------------	-------------

<b>DRIP PROOF:</b>	MIL-STD-810E
--------------------	--------------

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

### PHYSICAL CHARACTERISTICS

SIZE	7" H x 6.5" W x 17" D
WEIGHT	10 Kg.
POWER	230 V 47-400 Hz Primary input, 20 - 30 VDC (Mil-Std-1275A) Secondary

These specifications are subject to change without notice