

## MD-4U20-810F

### *Rugged 4U Platform*

The MD-4U20-810F provides a compact, versatile and rugged 4U platform offering high reliability for the most demanding applications. An Intel processor-based architecture provides the highest performance available. Custom integration and testing is available for dock to stock solutions.

The MD-4U20-810F is an extreme duty system designed for demanding applications in military and industrial operations. With a compact design that saves space and weight, the system offers great value and performance without the associated high cost. Designed and tested for high shock and vibration (**MIL-STD-810F** compliance), this system provides complete protection for mission critical applications.



### **EXTREME Industrial Features**

- Shock mounted drive bays and motherboard
- Positive pressure front cooling with one 102 CFM ball bearing fan and 2 rear I/O fans
- Firmly held plug-in cards with uniquely designed clamps
- Internal chassis bracing
- Wire bridges to eliminate the need for stick-on tie-wrap holders



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# MD-4U20-810F

## Specifications



### CHASSIS

7 slot 4U chassis designed for harsh industrial and military environments.

**Material:** .090" aluminum w/gold alodine chassis

**Front Panel:** Black

**Indicators:** Power LED, Drive LED

**Controls:** Power & reset ON/OFF switch

**Dimensions:** (W x D x H) 19" x 20" x 6.97"

### SYSTEM

Accepts both standard and extended ATX form factor serverboards (attached to a shock plate).

#### MCS2 Dual Multi-Core Serverboard:

- 1 PCI-e x16 PCI EXPRESS slot
- 1 PCI-e x4 PCI EXPRESS slot (in x16 slot)
- 2 PCI-X 64-bit 133/100MHz slots
- 2 PCI 32-bit/33MHz slots

#### MCS3 Dual Multi-Core Serverboard:

- 1 PCI-e x8 PCI EXPRESS slot
- 1 PCI-e x4 PCI EXPRESS slot (in x8 slot)
- 2 PCI-X 64-bit 133/100MHz slots
- 2 PCI 32-bit/33MHz slots

#### MCX11 Dual Multi-Core Serverboard:

- 4 PCI-e x16 PCI EXPRESS slots
- 2 PCI 32-bit/33MHz slots

*Other serverboard options available.*

### CPU

**Intel:** Dual Xeon processors (Dual-Core and Dual Quad-Core processor options available).

### COOLING

**Front:** A 102 CFM front intake ball-bearing fan and 2 rear I/O 20 CFM fans.

**Auxillary Fans:** Power supply, hot swap hard drive carrier and processor.

**Front Filter:** Removable and washable

### POWER

**Power Input:** PS/2 510 watt autorange 110/220 VAC.

**Ruggedization:** Harsh industrial / military environments.

### DRIVE BAYS

**Front Accessible:** Three shock-mounted 5.25" and one notebook slimline drive bay mounted on removable plates which lock into a shock mounted drive frame.

**Internal:** Two shock mounted 3.5" hard drives.

### ENVIRONMENT

**Temperature:** 0° to 50° C

**Humidity:** 5% to 95% non-condensing

**Altitude:** Up to 15,000 feet

#### Vibration

- Non-operating: 3.15G, 5-500Hz
- Operating: 1.50G, 5-500Hz
- Duration: 60 minutes each axis

#### Shock

- Non-operating: 20G Half-sine, 9ms
- Operating: 2G Half-sine, 9ms
- Repetitions: 3 shocks per axis

### OPTIONS

Redundant power supply

DC power options

Hotswap removable drive module with 3 drives

Rack mount slide rails

*Please contact us for ordering and pricing information.*

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