

## MD-4U23-810F

### *Rugged 4U Platform*



The MD-4U23-810F provides a compact, versatile and rugged 4U platform offering high reliability for the most demanding applications. Dual Intel® 5500 series Xeon® Quad/Dual-Core or Dual Intel® X5600 series Hexa-Core Xeon® processors provide the highest performance available. Custom integration and testing is available for dock to stock solutions.

The MD-4U23-810F 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-4U23-810F

## Specifications



### CHASSIS

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

**Material:** .060" 5052-H32 aluminum chassis w/gold alodine finish, 18ga. Cold rolled steel with zinc electroplate & yellow chromate I/O panel.

**Indicators:** Power LED, Drive LED

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

**Rack Slides:** Provisions for 16-24" rack slides

**Dimensions:** (W x D x H) 19" x 22.5" x 6.97"

### SYSTEM/MOTHERBOARD

#### NMCX1-SE DUAL MULTI-CORE SERVER BOARD

INTEL 5520 (Tylersburg) chipset  
(1) PCI-e x16 slot 2.0  
(2) PCI-e x4 slots 2.0 (in x8 slot)  
(1) PCI-e x4 slot (in x8 slot)  
(3) PCI-X 133/100MHz 64-bit slots  
Up to 192GB of memory

#### NMCX2-SE DUAL MULTI-CORE SERVER BOARD

INTEL 5520 (Tylersburg) chipset  
(2) PCI-e x16 slots 2.0  
(1) PCI-e x4 slot (in x8 slot)  
(3) PCI 33MHz 32-Bit slots  
Up to 192GB of memory

80GB 2.5" SSD standard boot drive

### CPU

Dual Intel® Quad-Core 5500 series Xeon® processors.  
or  
Dual Intel® Hexa-Core 5600 series Xeon® processors.

### COOLING

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

**Auxillary Fans:** Power supply and processors.

Front Filter: Removable and washable.

### POWER

**Power Input:** Standard triple redundant 750 watt power supply. 100-240 VAC

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

### DRIVE BAYS

**Front Accessible:** 4 shock-mounted hotswap rugged/removable 3.5" SATA HDD carriers and one slim-line DVD-RW SATA optical drive.

**Internal:** Up to two shock-mounted SATA SSD drives.

2.5" or 3.5" SATA Solid-State Disk drives;

2.5" Options: 40GB, 80GB, 160GB

3.5" Options: 128GB, 256GB, 512GB or 1TB

### ENVIRONMENT

**Temperature:** 0° to 50° C

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

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

**Vibration:** Method 514.5, Category 4,  
Procedure 1 Sinusoidal per 514.5B  
2.3.2 Random per 514.5B 2.3.1 &  
514.5C-3

**Shock:** Method 516.5, Procedure 1 (10G, 11ms)  
and Procedure 2

### OPTIONS

DC power options

40 & 160GB 2.5" SSD boot drive options

*Please contact us for ordering and pricing information.*

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