

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 3 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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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.

Front Panel: Black

Indicators: Power LED, Drive LED

Controls: Power & Reset ON/OFF switch

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

SYSTEM/MOTHERBOARD

Accepts both Micro-ATX, Standard ATX and Extended ATX form-factor Server boards (attached to a shock plate)

MCSXE Dual socket multi-core server board:

- 1 PCI-e x16 PCI EXPRESS slot
- 3 PCI-e x4 PCI EXPRESS slots
- 3 PCI-X 64-Bit 133 / 100 MHz. slots

MCSXI Dual socket multi-core server board:

- 2 PCI-e x16 PCI EXPRESS slots
- 1 PCI-e x4 PCI EXPRESS slot
- 3 PCI 32-Bit 33 MHz. slots

MCSXF Dual socket multi-core server board:

- 1 PCI-e x16 PCI EXPRESS slot
- 2 PCI-e x8 PCI EXPRESS slots
- 1 PCI-e x4 PCI EXPRESS slot
- 2 PCI 32-Bit 33 MHz. slots
- On-Board integrated VGA

CPU

INTEL: Core i5, Core i7, 5500 & 5600 Series Xeon processors & legacy LGA775 socket processors.

COOLING

Front: 102CFM front intake ball-bearing fan and 3 rear I/O 20CFM fans.

Auxillary Fans: Power supply and processors.

Front Filter: Removable and washable.

POWER

AC INPUT: 750 Watt triple redundant ATX supply

OR DC INPUT: 760 Watt (24VDC) ATX supply

DRIVE BAYS

Front Accessible: (4) Shock-mounted 3.5" SATA hard disk drive bays on removable rugged HDD drive carriers. (1) Slim-line DVD-RW SATA tray-loading optical drive.

Internal: Up to (2) shock mounted 2.5" or 3.5" hard disk drive bays.

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

Please contact us for ordering and pricing information.

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