

**MicroDISC**

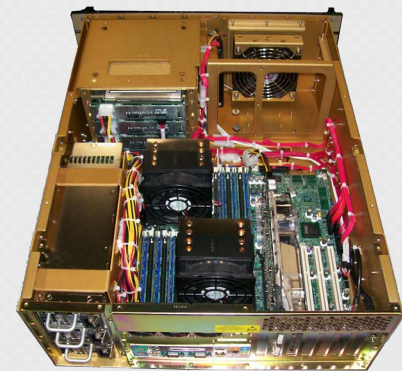
# **MD-4U23-810F-AIO** **RUGGED 4U SYSTEM**

*The MD-4U23-810F-AIO provides a compact, versatile and rugged 4U platform offering high reliability for the most demanding applications. An Intel Xeon processor-based architecture provides the highest performance available. MicroDISC hardened/industrial systems are deployed worldwide in defense, oil and gas, automation, video surveillance and OEM industrial applications.*

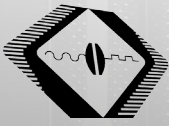
*The MD-4U23-810F-AIO is an extreme duty system designed for demanding NAS applications in military and industrial operations. With a compact 4U design that saves space and weight, the system offers great value and performance without the associated high cost. The unit comes with (2) 2.5" SATA SSD boot drive bays and (4) removable 2.5" SATA data drive bays that can be populated with 24 1TB, 2TB, 3TB or 4TB RAID Ready Enterprise hard disk drives. 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
- Rear ball bearing fans
- Removable front filter
- Firmly held plug-in cards with uniquely designed clamps
- Internal chassis bracing
- Wire bridges to eliminate the need for stick-on tie-wrap holders
- RTV applied to cabling, capacitors, and connectors as a preventative measure against failed connection or component crawl



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**MicroDISC**  
IMAGE PROCESSING SPECIALISTS

# MD-4U23-810F-AIO

## 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 22.5" x 6.97"

### **SYSTEM**

MSXI41 Dual Socket Multi-Core Intel Sandy Bridge chipset server board:

- (4) PCI-e x16 PCI EXPRESS Gen 3.0 slots
- (3) PCI-e x8 PCI EXPRESS Gen 3.0 slot
- (1) PCI-e x4 PCI EXPRESS Gen 2.0 slot

### **CPU**

MSXI41: Intel Single or Dual E5-2600 Xeon processors (Eight-Core, Ten-Core or Twelve-Core processor options available)

### **COOLING**

- (1) 80mm - 69.9 CFM front intake fan
- (1) 60mm - 24 CFM mid-chassis fan
- (2) 80mm - 38.6 CFM drive bay fans
- (2) 60mm - 24 CFM rear exhaust fans

### **POWER OPTIONS**

- AC power supply rated at 1200 Watts, input 110-230VAC
- 1500 Watt power supply with 18-32VDC input

### **DRIVE BAYS**

- 2 shock-mounted internal 2.5" SATA SSD Boot drives
- 4 shock-mounted 2.5" SATA drive bays on removable carriers with key lock

### **ENVIRONMENTAL**

- **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

**Contact MicroDISC sales for complete server board specifications and single socket solutions.**

## **ABOUT MDI**

Since 1984, MicroDISC has been providing Government, Military/Aerospace, Industry and Academia with invaluable knowledge and expertise in the field of machine vision, image processing and the packaging of integrated or embedded systems across a broad range of computer architectures and operating environments. Our commitment is to deliver the latest in leading edge technology packaged to meet the needs of our customers using mostly commercial-off-the-shelf (COTS) and long life-cycle components.

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