# MicroDISC MD-3U20S-810G

## RUGGED 3U SYSTEM

*The MD-3U20S-810G provides a compact, versatile and rugged 3U 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-3U20S-810G is an extreme duty system designed for demanding NAS applications in military and industrial operations. With a compact 3U design that saves space and weight, the system offers great value and performance without the associated high cost. The unit comes with a removable 2.5" SATA SSD boot drive and up to six SATA/SAS 2.5" or 3.5" drive bays that can be populated with six RAID Ready Enterprise hard disk drives (up to 2TB each for 2.5" SSDs and up to 6TB each for 3.5" HDDs with 1, 2, 3, 5 or 6TB capacity options). Designed and tested for high shock and vibration (MIL-STD-810G compliance), this system provides 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

**MILITARY . DATA COLLECTION . MACHINE VISION . SURVEILLANCE**

MicroDISC
IMAGE PROCESSING SPECIALISTS

# MD-3U20S-810G

## SPECIFICATIONS

### *CHASSIS*

7 slot 3U 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 5.25”

### *SYSTEM*

MCSX10-03 Dual-Socket Intel R3 LGA2011 E5-2600v3 server board:

- (1) PCI-e x16 GEN 3.0 slot
- (6) PCI-e x8 GEN 3.0 slots

### *CPU*

- (2) E5-2600v3 Xeon processors (up to 145W TDP) or
- (2) E5-2600v4 Xeon processors (up to 145W TDP)

### *COOLING*

- (4) 40mm x 40mm x 28mm front intake fans
- (2) 40mm x 40mm x 28mm mid-chassis fans
- (2) 60mm x 60mm x 25mm rear exhaust fans

### *POWER*

800 Watt 2U industrial grade 100V – 230V AC power supply

### *DRIVE BAYS*

- (6) Shock-mounted SATA 3.5” removable drive bays (accommodates 2.5” or 3.5” SATA drives)
- (1) Slim-Line 8x DVD-RW SATA Optical Drive

### *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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