MicroDISC MD-1U28S-810G-NAS

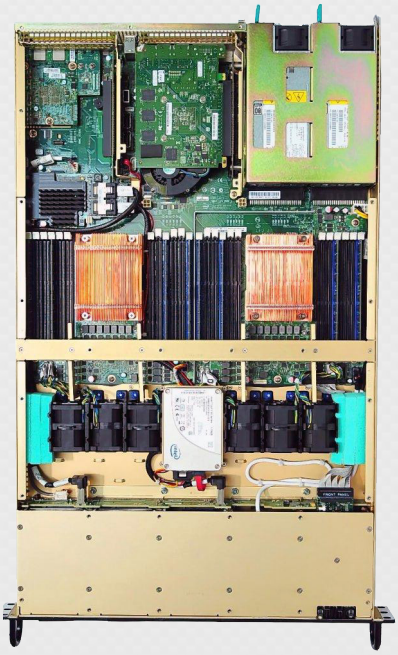
RUGGED 1U SYSTEM

The MD-1U28S-810G-NAS provides a compact, versatile and rugged 1U platform offering high reliability for the most demanding applications. An Intel Xeon processor-based architecture provides the highest performance available.

The MD-1U28S-810G-NAS is an extreme duty system designed for demanding applications in military and industrial operations. With a compact 1U design that saves space and weight, the system offers great value and performance without the associated high cost. The unit comes with eight removable 2.5" SATA SSD/HDD drive bays and two internal 2.5" SATA drive bays. This unit also has an on-board 8-Port hardware SATA RAID controller as well as an embedded I/O port capable of supporting either dual 10GbE or quad 1GbE add-on modules. In addition, the user has available two full-height 3/4 length PCI Express x16 slots. 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
- Two full-height 3/4 length PCI Express x16 slots
- 8-Port hardware SATA RAID controller; RAID level supported: 0,1,5,6,10,50,60
- Positive pressure front cooling
- 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-1U28S-810G-NAS

SPECIFICATIONS

CHASSIS

2 PCI Express x16 slot 1U 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 28.5” x 1.70”

SYSTEM

MD-1U28-810G / G2MCIX3

- Dual socket E5-2600v3 / E5-2600v4 Xeon processor technology
- 32GB DDR3 memory, expandable to 384GB memory
- Onboard VGA
- (4) onboard 1GbE NICs
- 8-Port hardware SATA RAID controller; RAID level supported: 0,1,5,6,10,50,60
- (2) PCI Express x16 Gen 3.0 slots

CPU

Currently tested & Qualified with;

- (2) E5-2660v3 Xeon 2.6GHz 10-core processors.
- **OR** (2) E5-2680v4 Xeon 2.4GHz 14-core processors.

- Additional E5-2600v3 & E5-2600v4 options available

COOLING

Dual (2x3) Redundant Fans

POWER

Dual 750 Watt Hot-Swap Redundant power supplies

DRIVE BAYS

- 2 x 2.5” internal SATA drive bays
- 8 x 2.5” removable front drive bays

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

OPTIONS

- PCI Express x16 Graphics Card
- Up to (2) SATA 2.5” SSD/HDD internal drives
- Up to (8) 2.5” SSD/HDD removable drives
- 2-port 10GbE NIC Fiber or Copper module
- 4-port 1GbE NIC module

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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