MicroDISC

# MD-1U22S-810G

## RUGGED 1U STORAGE SYSTEM

*The MD-1U22S-810G provides a compact, versatile, rugged 1U platform offering high reliability for the most demanding applications. Intel dual XEON multi-core processor based architecture provides the highest performance available. Custom integration and testing is available for dock-to-stock solutions.*

*The MD-1U22S-810G is an extreme duty system designed for demanding applications in military and industrial operations. With a compact design that saves space and weight, the systems offers great value and performance without the associated high costs. Designed and tested for high shock and vibration (MIL-STD-810G compliance), the system provides complete protection for mission critical applications.*

## EXTREME Industrial Features

- Shock mounted drive bays and motherboard
- Positive pressure front cooling with seven ball bearing fans
- Firmly held plug-in cards with uniquely designed card hold-down clamps
- Internal chassis bracing
- Wire bridges to eliminate the need for stick-on tie-wrap holders
- Custom integration of CFE or GFE

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

MicroDISC
IMAGE PROCESSING SPECIALISTS

# MD-1U22S-810G

## SPECIFICATIONS

### *CHASSIS*

1U single slot PCI Express x16 slot chassis designed for harsh industrial and military environments.

- **Material:** .063 5052-H32 aluminum chassis w/ gold alodine finish. 18 ga. cold rolled steel with zinc electroplate & yellow chromate front I/O panel.
- **Front Panel:** .190" Aluminum black powder coat
- **Indicators:** Power & Drive LED
- **Controls:** Power & reset ON/OFF switch, USB
- **Dimensions:** (W x D x H) 17" x 24" x 1.72"

### *SYSTEM BOARD*

MCSX9-V21 Dual-Socket LGA2011 server board with (1) PCI-e x8 (3.0) Slot

MCSX10-01 Dual-Socket R3 LGA2011 server board with (1) PCI-e x16 (3.0) Slot

### *CPUs*

**Intel:** E5-2600v3 & E5-2600v4 Xeon processors

### *COOLING*

**Mid-Chassis:** (6) X 15 CFM ball-bearing fans
**Additional:** (1) ball-bearing power supply fan

### *POWER*

**Standard AC Power Supply:** 100/220 VAC 800 Watt AC power supply with 5 – 15P to IEC320C13 (18AWG) power cord.

**Optional DC Power Supply:** 18 – 36 VDC 750 Watt DC power supply with Commercial 2-Post power connector.

**DC power supply option:** 18 – 36 VDC 750 Watt DC power supply with MIL Circular power connector with Mating Circular power connector provided.

### *DRIVE BAYS*

**Front Accessible:** Six hot swap 2.5" SATA hard drive carriers.

### *ENVIRONMENTAL*

- **Temperature:** 0° to 50° C
- **Humidity:** 5% to 95% non-condensing
- **Altitude:** Up to 10,000 feet
- **Vibration**: Method 514.6, Annex C, Category 4, Figure : 514.6C-1 and Table: 514.6C-II.
- **Shock**: Method 516.6, Procedure 1 (20G, 15ms)

**Designed to meet MIL-STD-810G specifications.**

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

## 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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