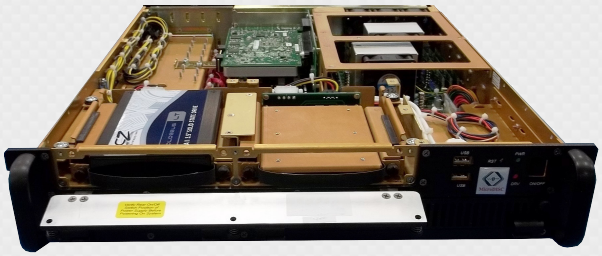
MicroDISC MD-2U19-810F

RUGGED 2U SYSTEM

The MD-2U19-810F provides a compact, versatile and rugged 2U platform oering high reliability for the most demanding applications. Intel® Xeon® processor based architecture provides the highest performance available. Custom integration and testing is available for dock to stock solutions.

The MD-2U19-810F 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 hot-swappable drive bays and motherboard
- Positive pressure front cooling with 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-2U19-810F

SPECIFICATIONS

CHASSIS

3 slot 2U chassis designed for harsh industrial and military envrionments.

- **Material:** .060” aluminum w/gold alodine finish and chassis and .190” aluminum front panel powder coated. 10 and 18-gauge steel back panel
- **Weight:** 29lbs
- **Front Panel:** Black
- **Indicators:** Power LED, Drive LED
- **Controls:** Power ON/OFF, system reset, supports up to 2 front USB ports
- **Dimensions:** (W x D x H) 19” x 19” x 3.5”

SYSTEM BOARD

MCSX8 Dual socket multi-core server board:
1 PCI-e x16 PCI EXPRESS slot
2 PCI-e x4 PCI EXPRESS slots

MCTX1 Dual socket multi-core server board:
2 PCI-e x16 PCI EXPRESS slots
1 PCI-e x4 PCI EXPRESS slot

CPU

Intel: 5600 and 5500 series Xeon processors

COOLING

Front: (6) 40x20mm, 18.67 CFM ball bearing fans
Rear: (3) 40x20mm, 13.53 CFM ball bearing fans
Front Filter: Removable and washable

POWER

700 watt auto-switching high eciency fixed ATX power supply, 110-230 VAC input

DRIVE BAYS

Front Accessible: (2) Shock-mounted 3.5” SATA hard disk drive bays on removable HDD drive carriers.

Slim-line DVD-RW SATA tray-loading optical drive.

Internal: Up to (1) shock mounted 2.5” SATA hard disk drive bay.

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
- **Ambient Temperature:** 25° C

Designed to meet MIL-STD-810F specifications.

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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