

# MicroDISC

IMAGE PROCESSING SPECIALISTS

## MD-2U19-810F

### *Rugged 2U Platform*

The MD-2U19-810F provides a compact, versatile and rugged 2U platform offering 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 mounting of hot-swappable drives
- 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 | SURVEILLANCE | MACHINE VISION | FACTORY AUTOMATION

# MD-2U19-810F

## Specifications



### CHASSIS

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

**Material:** .060" aluminum w/gold alodine finish and .190" aluminum front panel powder coated. 10 & 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 & 5500 series Xeon processors

### COOLING

**Front:** Four 71 CFM ball bearing fans

**Rear:** Three 35 CFM ball bearing fans

**Front Filter:** Removable and washable

### POWER

700 watt auto-switching high efficiency 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.

### ENVIRONMENT

**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

*Please contact us for ordering and pricing information.*

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