

# M116-FIO - 1U RUGGED RACKMOUNT SERVER

## *Rugged System Built for Extreme Environments*

The rugged M116S-FIO is a short-depth 1U rackmount server built for applications that require speed, reliability, and security. The high-performance M116S-FIO is designed to save space without sacrificing power thanks to our SWaP-Optimized design.



## CUSTOM BUILT RUGGED SYSTEM

### **2X HOT-SWAP DRIVE**

- ▶ ALL-ALUMINUM CHASSIS
- ▶ LATEST NVIDIA® TECHNOLOGY
- ▶ LATEST INTEL® TECHNOLOGY
- ▶ MIL-SPEC TESTED
- ▶ BUILT IN THE USA



Built with ultra-sturdy all-aluminum chassis, this rugged computer features two shock mounted hot-swap drives and supports the latest Intel® Quad and Hexa-Core CPUs while providing one full-height PCIe slot on the rear of the chassis. The rugged M116S-FIO includes the latest single-stack NVIDIA® Tesla® GPU Card which provides our customers with high-performance data analytics and scientific computing abilities.

**For more info on the M116S-FIO 1U server, please visit [www.core-systems.com](http://www.core-systems.com)**

# M116-F10 - 1U RUGGED RACKMOUNT SERVER

## TECHNICAL SPECIFICATIONS

|                 |                                                                                                                                                                                                                   |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MECHANICAL      | Height - 1.75 in (4.45 cm), Width - 19 in (48.26 cm), Depth - 14.00 in (35.56 cm)<br>Weight - 15-21 lbs (6.80-9.52 kg)                                                                                            |
| CPU             | Latest Dual Intel® Xeon® CPUs                                                                                                                                                                                     |
| EXPANSION SLOTS | One (1) full-height, 3/4 length slots<br>Multiple PCIe slot combinations are available                                                                                                                            |
| EXTERNAL BAYS   | Option 1- Two (2) removable hot swap SATA or SAS 2.5 HDDs<br>Option 2- Two (2) removable hot swap 2.5 SATA SSD HDDs<br>Option 3- (offered along with option 1 or 2) One (1) slim line CD/DVD (R/W) or Blu-ray ODD |
| COOLING         | Thermostatically controlled via motherboard                                                                                                                                                                       |
| POWER SUPPLY    | Option 1- (std) 400W AC power supply<br>Option 2- 28VDC power supply                                                                                                                                              |
| SYSTEM BOARD    | Extended ATX Motherboard                                                                                                                                                                                          |
| CHASSIS TYPE    | Lightweight aluminum chassis                                                                                                                                                                                      |

## ENVIRONMENTAL SPECIFICATIONS

|                   |                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------|
| OPERATIONAL TEMP. | MIL-STD-810F, Method 501.5 Procedures I/II; -15°C to +55°C                                                 |
| STORAGE TEMP.     | MIL-STD-810F, Method 501.5, Procedures I/II; -55°C to +85°C                                                |
| HUMIDITY          | MIL-STD-810F, Method 507.4; 48 Hour, 95% RH 40-65C (with conformal coat option)                            |
| ALTITUDE          | MIL-STD-810F, Method 500.4; 12,500ft operation with 40,000ft transport                                     |
| VIBRATION         | MIL-STD-810G, Method 514.6 Procedure I; 4.43 GRMS, 5-20000Hz, 60min/axis                                   |
| SHOCK             | MIL-STD-810G, Method 516.6, Procedures I/V; 20g, 11msec - functional shock; 40g, 11msec crash hazard shock |
| OTHER             | MIL-STD-461F CE & RE emissions (with 461 filter option)                                                    |

### ABOUT US

Core Systems is a premier manufacturer of best-in-class rugged computers and rugged displays. We design and manufacture all of our products in Poway, California. Our 65,000+ square foot facility features onsite engineering, assembly, and testing along with a complete metal fabrication and machining facility. Our wide range of rugged products are deployed in ground vehicles, aircraft, and maritime installations worldwide.