



## RUGGED M316S SERVER

### Military-Grade Rugged 3U Rackmount Server

The **M316S** is a rugged 3U short-depth server built for high-performance computing in space-constrained, mission-critical environments. Designed with a durable sheet-metal and all-aluminum chassis, it is SWaP-optimized for reliable operation in demanding conditions. Tested to meet military specifications, it features shock-mounted, hot-swappable drives, secure cable retention, and transit-ready options for mobile deployments.

Powered by the latest Intel® Xeon® processors and supporting the latest NVIDIA® GPUs, the M316S delivers strong compute and graphics performance for data-intensive applications. With six full-height PCIe slots, flexible storage, and robust I/O expandability, it's ideal for defense, aerospace, and industrial workloads requiring scalable performance in a compact rugged form factor.

- Application-specific design
- Tested to meet military standards
- Built in the USA

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### Featured Specifications

#### CPU

Latest Intel Xeon Scalable Processor

#### GPU

Latest NVIDIA GPU Graphics Card

#### RAM

Up to 2TB

#### Power

Power options available

#### Chassis Type

Aircraft-Grade Aluminum



## Technical Specifications

### Dimensions

Height: 5.25 inches, Width: 17.00 inches, Depth: 16.00 inches  
Weight: 30-35.00 lbs

### CPU

Latest Intel Xeon Scalable Processor

### GPU

Latest NVIDIA GPU Graphics Card

### RAM

Up to 2TB

### Expansion Slots

Qty: 6, low profile

### External Bays

Qty: 2

### USB Ports

Qty: 4

### Power Supply

28VDC, 600W AC

### PCIe Expansion

Multiple slot combinations available

### Storage SSD

Up to 15.36TB NVMe

### System Board

Extended ATX Motherboard

### Cooling

80mm high speed, high volume fans

## Environmental Specifications

### Operational Temperature

MIL-STD-810F, Method 501.5, Procedures I/II: -15°C to +55°C

### Storage Temperature

MIL-STD-810F, Method 501.5, Procedures I/II: -15°C to +55°C

### Humidity

MIL-STD-810F, Method 507.4: 95% RH, 48 hours at 40 – 65°C

### Altitude

MIL-STD-810F, Method 500.4: 12,500 ft operation; 40,000 ft transport

### Vibration

MIL-STD-810G, Method 514.6: 4.43 GRMS, 5-20000Hz, 60 min/axis

### Shock

MIL-STD-810G, Method 516.6: 20g, 11ms functional; 40g, 11ms crash hazard

### EMC

MIL-STD-461F: CE & RE emissions

## Work With Core Systems Today

Core Systems designs and builds rugged servers, displays, mission computers, and integrated cabinet solutions for military and industrial applications. From our 85,000 sq. ft. San Diego facility, we deliver cutting-edge, durable computing solutions for mission-critical needs.

### Core Systems

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