



## RUGGED M108 SERVER

### Military-Grade Compact 1U Server

The Rugged **M108** is an ultra-compact, fully rugged 1U server platform engineered for mission-critical deployments in space and weight constrained environments. Measuring just 1.75" H × 9.5" W × 8" D and weighing between 8 to 11 lb, it is designed to fit seamlessly into short depth rack systems while maintaining Core Systems signature durability and reliability.

The M108 offers front-facing I/O for efficient, field-ready access, including 4 USB ports, HDMI, DisplayPort, MIL-Connector, 5 Ethernet ports, a speaker/microphone jack, and a VGA port. Built to meet MIL-STD-810F/G specifications, it withstands extreme conditions such as shock, vibration, temperature, and humidity. With a rugged chassis and customizable internal components, the M108 delivers reliable performance in demanding operational settings.

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

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### Featured Specifications

#### CPU

Latest Intel Xeon Scalable Processor

#### I/O Interfaces

4× USB, MIL-Connector, 5× Ethernet and Audio I/O

#### RAM

Up to 2TB

#### Power

110v MIL-Connector

#### Chassis Type

Aircraft-Grade Aluminum



## Technical Specifications

### Dimensions

Height: 1.75 inches, Width: 9.50 inches, Depth: 8.00 inches  
Weight: 8-11 lbs

### CPU

Latest Intel Xeon Scalable Processor

### RAM

Up to 2TB

### Front I/O Ports

MIL-Connector  
5x Ethernet ports  
speaker/microphone jack

### USB Ports

Qty: 4

### Display Interfaces

HDMI  
Display Port  
VGA

### Power Supply

110v MIL-Connector

### Systems Board

Extended ATX Motherboard

### Cooling

Thermostatically controlled via motherboard

### Chassis

Lightweight aluminum chassis

## 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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