



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 x 9.5" W x 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

Featured Specifications

CPU

Latest Intel Xeon Scalable Processor

I/O Interfaces

4x USB, MIL-Connector, 5x 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

13000 Danielson St
Poway, CA 92064

