RUGGED M110S SERVER

Military-Grade 1U Short-Depth Server

The **M110S** is a rugged 1U server designed for ultra-short-depth deployments with a maximum 10-inch depth. Built with a robust all-aluminum chassis, it's SWaP-optimized for military, aerospace, and industrial platforms where space and weight are critical. Shock-mounted, hot-swappable drives and secure cable management ensure reliability and easy maintenance in mission-critical environments.

Powered by the latest Intel® Xeon® scalable processors and supporting NVIDIA GPUs, the M110S delivers exceptional compute and graphics performance in a compact, field-ready design. With custom power options, this MIL-SPEC tested server is an ideal solution for rugged edge deployments and tactical systems.

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

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

FRONT

BACK

Technical Specifications

Dimensions
Height: 1.75 inches, Width: 19.00 inches, Depth: 10.00 inches
Weight: 15-21 lbs

CPU
Latest Intel Xeon Scalable Processor

GPU
Latest NVIDIA GPU Graphics Card

RAM
Up to 2TB

Expansion Slots
Qty: 1, full height

External Bays
Qty: 2

USB Ports
Qty: 4

PCIE Expansion
Multiple slot combinations available

Power Supply
28VDC, 400W AC

System Board
Extended ATX Motherboard

Storage SSD
Up to 15.36TB NVMe

Chassis
Lightweight aluminum chassis

Enviromental 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.

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