



RUGGED M124S SERVER

Military-Grade 1U Short-Depth Server

The **M124S** is a rugged 1U server built for high-performance applications in space-constrained, mission-critical environments. With a robust all-aluminum chassis and a maximum 24-inch depth, it's SWaP-optimized for military, aerospace, and industrial platforms where weight and reliability are crucial. Shock-mounted, hot-swappable drives and secure cable management ensure durability and easy maintenance in the field.

Powered by the latest Intel® Xeon® scalable processors and NVIDIA GPUs, the M124S delivers exceptional compute and graphics performance in a compact, deployable design. Flexible AC or 28VDC power and MIL-STD-810F/G and 461F compliance make it ideal for tactical edge systems, mobile command units, and rugged enterprise applications.

- 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



Technical Specifications

Dimensions

Height: 1.75 inches, Width: 17.75 inches, Depth: 24.00 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: 6

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

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

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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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