CORE SYSTEMS

RUGGED M218 SERVER

Military-Grade Rugged 2U Rackmount Server

The **M218** is a rugged 2U server built for compute-heavy applications in harsh and mission-critical environments. Constructed with a lightweight, all-aluminum chassis, it's SWaP-optimized for military, aerospace, and industrial platforms requiring robust, field-ready performance. Shock-mounted drives and front-access I/O ensure durability and serviceability under extreme conditions.

Powered by the latest Intel® Xeon® scalable processors and supporting dual-slot NVIDIA GPUs, the M218 delivers powerful, scalable performance in a ruggedized short-depth form factor. With efficient thermal management and full customization options, the M218 is ideal for edge deployments, mobile platforms, and tactical rackmount 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

Copyright 2025 All Rights Reserved

CORE SYSTEMS

RUGGED M218 SERVER

Technical Specifications

Dimensions
Height: 3.50 inches, Width: 17.75 inches, Depth: 18.00 inches
Weight: 18-22 lbs

CPU
Latest Intel Xeon Scalable Processor

GPU
Latest NVIDIA GPU Graphics Card

RAM
Up to 2TB

Expansion Slots
Qty: 3, full height

External Bays
Qty: 6

USB Ports
Qty: 6

Power Supply
120/240VAC, 28VDC, 650W

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.

Core Systems
13000 Danielson St
Poway, CA 92064