CORE SYSTEMS



RUGGED M318S-01 SERVER

Military-Grade 3U Server

The **M318S-01** is a rugged 3U short-depth server built with a durable sheet-metal chassis and engineered for high-performance computing in mission-critical environments. Designed for applications where space and reliability are key, the M318S-01 meets MIL-STD-810 and MIL-STD-461F standards and includes transit-ready options for mobile and tactical deployments.

Powered by the latest Intel® Xeon® scalable processors, the M318S-01 supports up to 2TB of ECC memory and the latest advanced NVIDIA® graphics card. Making it ideal for defense, aerospace, and industrial applications requiring rugged, application-specific performance.

- 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

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Technical Specifications

Dimensions
Height: 5.25 inches, Width: 17.00 inches, Depth: 18.00 inches
Weight: 30-35 lbs

CPU
Latest Intel Xeon Scalable Processor

GPU
Latest NVIDIA GPU Graphics Card

RAM
Up to 2TB

Expansion Slots
Qty: 7, low profile

External Bays
Qty: 2

PCIE Expansion
Multiple slot combinations available

USB Ports
Qty: 8

Power Supply
28VDC, 600W AC

System Board
Extended ATX Motherboard

Storage SSD
Up to 15.36TB NVMe

Cooling
80mm high speed, high volume vans

Enviromental Specifications

Operational Temperature
-15°C to +55°C; MIL-STD-810F, Method 502.4 Procedure II (Low Temperature) and Method 501.4 Procedure II (High Temperature)

Storage Temperature
-55°C to +85°C; MIL-STD-810F, Method 502.4 Procedure I (Low Temperature) and Method 501.4 Procedure I (High Temperature)

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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