



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

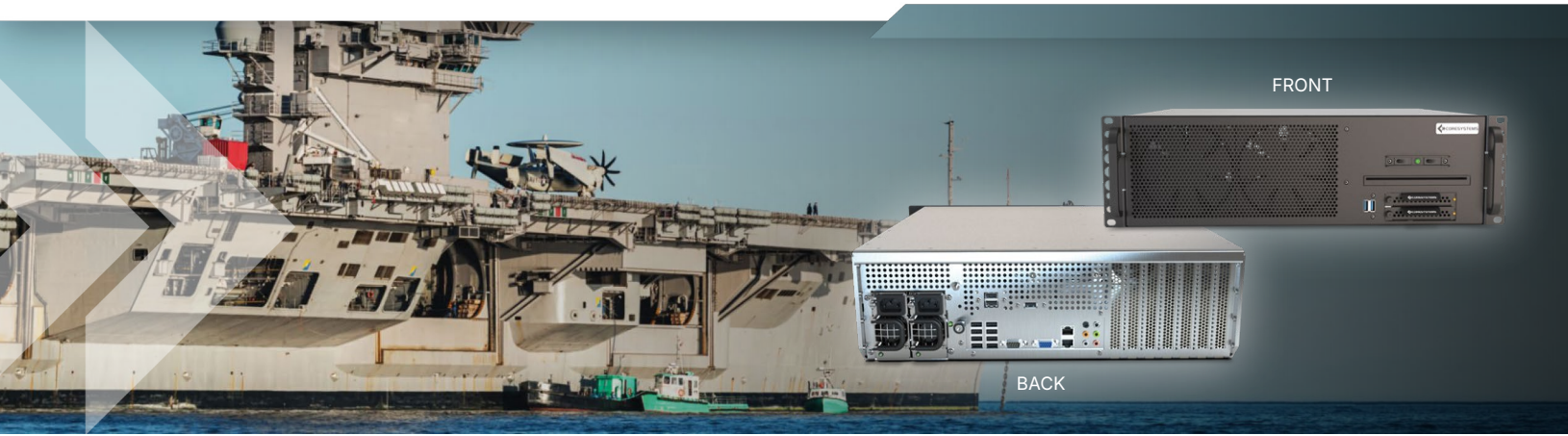
Up to 2TB

Power

Power options available

Chassis Type

Aircraft-Grade Aluminum



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 fans

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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