



RUGGED M320 SERVER

Military-Grade Rugged 3U Rackmount Server

The **M320** is a rugged 3U server purpose-built for high-performance computing in space-constrained and mission-critical environments. Designed with a durable, short-depth chassis and tested to meet military specifications, it delivers reliable operation in demanding defense, aerospace, and industrial applications. Its robust construction, front-access I/O, and serviceable design make it well-suited for mobile platforms and transit-ready deployments.

Powered by the latest Intel® Xeon® processors and supporting the latest NVIDIA® GPUs, the M320 provides scalable compute and graphics performance for data-intensive workloads. With flexible storage configurations, high-speed connectivity, and support for AC and DC power options, it offers a highly adaptable solution tailored to application-specific requirements in rugged environments.

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

Copyright 2026 All Rights Reserved

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: 17.75 inches, Depth: 20.00 inches
Weight: 30-35.00 lbs

CPU

Latest Intel Xeon Scalable Processor

GPU

Latest NVIDIA GPU Graphics Card

RAM

Up to 2TB

Expansion Slots

Qty: 5, low profile

External Bays

Qty: 2

USB Ports

Qty: 4

Power Supply

28VDC, 600W AC

PCIe Expansion

Multiple slot combinations available

Storage SSD

Up to 15.36TB NVMe

System Board

Extended ATX Motherboard

Cooling

Thermostatically controlled via motherboard
90mm 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

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

