



RUGGED M217S-FIO SERVER

Military-Grade Rugged 2U Rackmount Server

The Rugged **M217S-FIO** is a high-performance 2U server built for mission-critical computing in harsh, space-constrained environments. Constructed with a rugged all-aluminum and reinforced sheet-metal chassis, it is tested to military specifications for durability. Its front I/O design, along with shock-mounted, hot-swappable drives and secure cable retention, ensures reliable operation and serviceability in mobile deployments.

Powered by Intel® Xeon® scalable processors, the M217S-FIO delivers strong compute performance with support for ECC memory and GPU acceleration. It supports single and dual redundant power supplies in both AC and DC inputs, and its short-depth design with flexible expansion makes it ideal for defense, aerospace, and industrial applications.

- 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

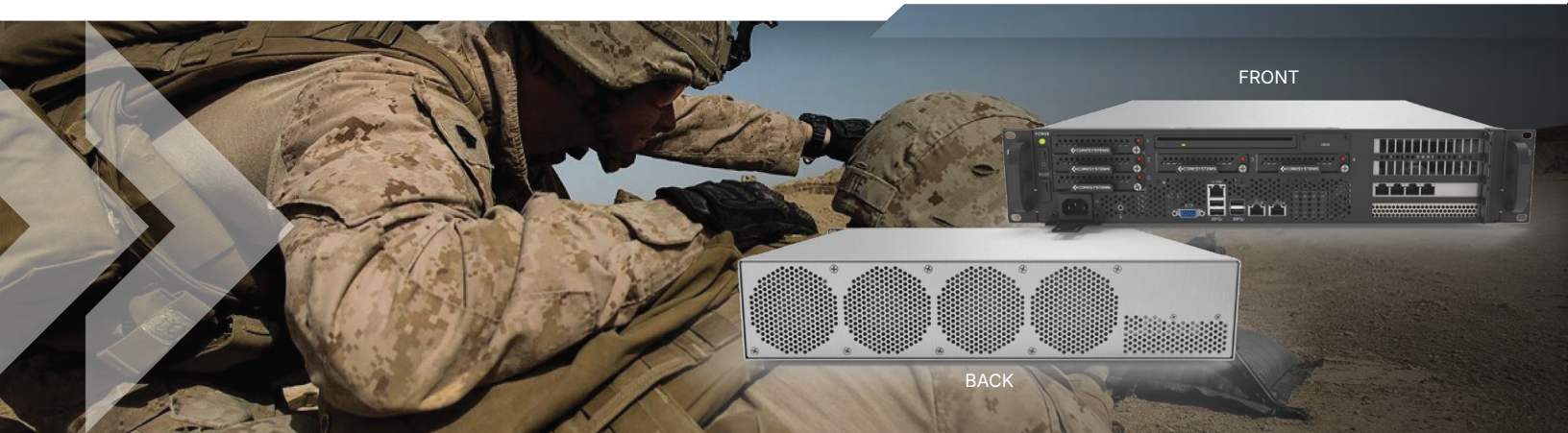
Up to 2TB

Power

Power options available

Chassis Type

Aircraft-Grade Aluminum



Technical Specifications

Dimensions

Height: 3.50 inches, Width: 19.00 inches, Depth: 17.00 inches
Weight: 34.00 lbs

CPU

Latest Intel Xeon Scalable Processor

GPU

Latest NVIDIA GPU Graphics Card

RAM

Up to 2TB

Expansion Slots

Qty: 4, full height

External Bays

Qty: 5

USB Ports

Qty: 4

Power Supply

110-220VAC, 800W

PCIe Expansion

Multiple slot combinations available

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

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

