CORE SYSTEMS



RUGGED M119S SERVER

Military-Grade 1U Short-Depth Server

The **M119S** is a rugged 1U server built for short-depth applications requiring high performance in a compact form factor. With a 17.75 inch sheet metal chassis, it meets military specifications for durability and reliability in extreme environments. SWaP optimized for tactical, aerospace, and defense use, the M119S is ideal where space and weight matter.

Powered by the latest Intel® Xeon® scalable processors and supporting NVIDIA® GPUs, it delivers scalable performance for demanding workloads. Its military grade, application specific design includes transit case options and full customization to meet mission requirements, making the M119S a dependable rugged compute solution for field operations.

- 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

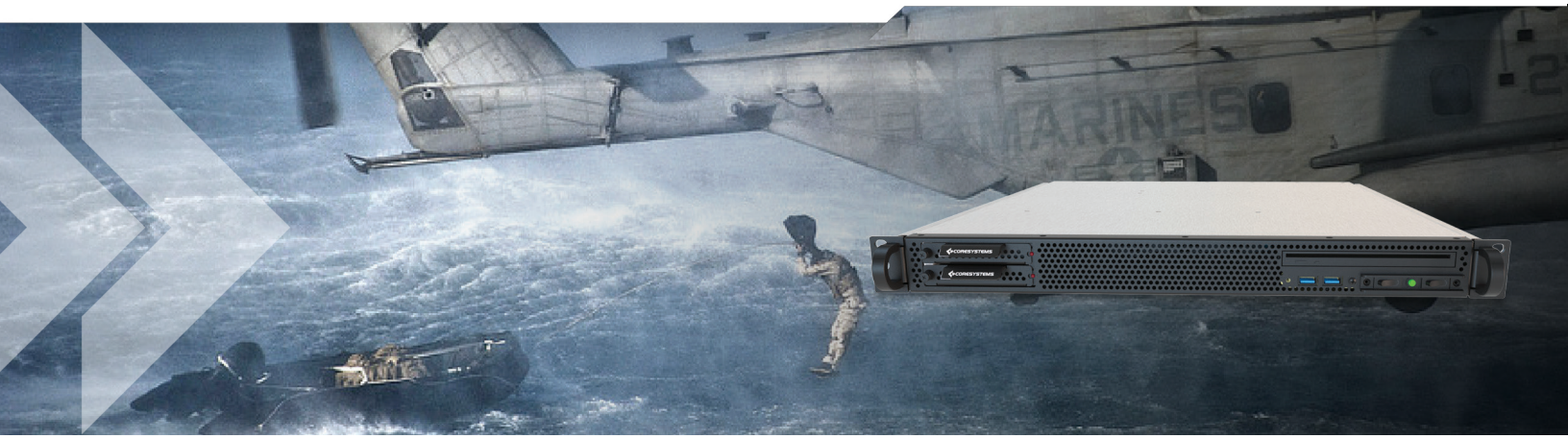
Power
Power options available

Chassis Type
Aircraft-Grade Aluminum

Copyright 2025 All Rights Reserved

CORE SYSTEMS

RUGGED M119S SERVER



Technical Specifications

Dimensions
Height: 1.75 inches, Width: 17.75 inches, Depth: 19.00 inches
Weight: 15-21 lbs

CPU
Latest Intel Xeon Scalable Processor

GPU
Latest NVIDIA GPU Graphics Card

RAM
Up to 2TB

Expansion Slots
Qty: 1, full height

External Bays
Qty: 2

USB Ports
Qty: 4

Cooling
Thermostatically controlled via motherboard
40mm high speed high volume fans

Power Supply
28VDC, 400W AC

System Board
Extended ATX Motherboard

Storage SSD
Up to 15.36TB NVMe

Chassis
Lightweight aluminum chassis

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.



Core Systems
13000 Danielson St
Poway, CA 92064