CORE SYSTEMS



RUGGED RPS217D LAPTOP

Military-Grade Rugged Laptop

The **RPS217D** is a rugged 17.3" portable server built from machined aircraft-grade aluminum, delivering server-class performance in a compact, deployable form. Designed for harsh environments, it meets MIL-STD 810 and 461 standards, offering resilience against shock, vibration, temperature extremes, and EMI. Swap-optimized for C2 on the move operation, ideal for field-ready operations.

Powered by the latest Intel® Xeon® scalable processors and supporting up to 128 GB DDR4 ECC memory, the RPS217D includes dual hot-swap SSD bays, a high-brightness FHD display, and triple smart batteries for extended use. With an operating range from –15 °C to +55 °C and optional filtering for EMC compliance, it's a powerful, mobile solution for defense, aerospace, and tactical edge applications.

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

Featured Specifications

Dimensions
Height: 4.00" | **Depth:** 11.40" | **Width:** 16.50"

Display
17.3" HD LCD

CPU
Latest Intel Xeon Scalable Processor

RAM
Up to 128GB

Power
Power options available

Copyright 2026 All Rights Reserved

CORE SYSTEMS

RUGGED RPS217D LAPTOP



Technical Specifications

Dimensions
Height: 4.00 inches, Width: 16.50 inches, Depth: 11.40 inches
Weight: 12.60 lbs

Display
17.3" HD LCD

Resolution
1920 x 1080

CPU
Latest Intel Xeon Scalable Processor

RAM
128GB

Power
AC adapter (120W, 100-240V, 50/60Hz)

Storage SSD
Dual hot-swappable SSD drives
15.36TB NVMe SSD

Input Interface
Integrated membrane keyboard
Onboard CAC reader

Brightness
500 cd/m² (NITS)

Color Depth
16.7M

Chassis
Lightweight aluminum chassis

Environmental 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 Procedure I; 4.43 GRMS, 5-2000Hz, 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

