CORE SYSTEMS

RUGGED RPS317 LAPTOP

Military-Grade Rugged Laptop

The **RPS317** is a rugged 17.3″ portable server built from a durable MIL-Spec chassis, delivering true server-class performance in a compact, deployable form. Designed for mission-critical use, it meets MIL-STD-810 and 461 standards for shock, vibration, temperature extremes, and EMI. Featuring a 17.3″ HD LCD display, 16-Core Intel® Xeon® CPU, and rugged construction, it provides dependable performance for defense, aerospace, and tactical operations.

With 512 GB ECC RAM and dual SSD drives, the RPS317 delivers 2 times the CPU performance of the RPS217 in a lighter, more portable chassis. Its efficient thermal design and hardened build ensure reliable operation in demanding environments. Built in the USA, the RPS317 is a powerful, field-ready solution for extreme mission requirements.

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

Featured Specifications

Dimensions
Height: 3.14″ | **Depth:** 11.40″ | **Width:** 16.65″

Display
17.3″ HD LCD

CPU
Latest Intel Xeon Scalable Processor

RAM
Up to 512GB

Power
Power options available

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Technical Specifications

Dimensions
Height: 3.14 inches, Width: 16.65 inches, Depth: 11.40 inches
Weight: 16.41 lbs

Display
17.3" HD LCD

Resolution
1920 × 1080

CPU
Latest Intel Xeon Scalable Processor

RAM
512GB

Power
100/240VAC

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

Pointing Device
Integrated touchpad

Brightness
500 cd/m² (NITS)

Color Depth
16.7M

Chassis
Lightweight aluminum chassis

Enviromental 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