



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



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

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.

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