CORE SYSTEMS

RUGGED RPS217D-X22 LAPTOP

Military-Grade Rugged Laptop

The **RPS217D-X22** is a rugged 17.3″ portable server built from machined aircraft-grade aluminum, delivering 22-core server-class performance in a deployable form factor. Designed for harsh environments, it meets MIL-STD-810 and 461 standards, withstanding shock, vibration, temperature extremes, and EMI. Built for mission-critical durability, it ensures reliable operation in demanding field deployments.

Powered by dual Intel® Xeon® 22-core processors and supporting up to 512 GB DDR4 ECC memory, the RPS217D-X22 includes ten 2.5″ SSD bays for scalable storage and a high-brightness HD display for field use. Engineered for extreme conditions and capable of surviving high-shock drops, it delivers reliable performance for defense, aerospace, and tactical edge applications.

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

Featured Specifications

Dimensions
Height: 3.70″ | **Depth:** 13.00″ | **Width:** 16.25″

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: 3.70 inches, Width: 16.25 inches, Depth: 13.00 inches
Weight: 24.00 lbs

Display
17.3" HD LCD

Resolution
1920 × 1080

CPU
Two Intel® Xeon® 22-Core CPUs

RAM
512GB

Power
100/240VAC

Storage SSD
10× 2TB 2.5" SSD Drives (supports 1.92TB, 3.84TB, 7.68TB or 15.36TB capacity SSD Drives) w/ onboard CAC reader

Pointing Device
Integrated touchpad

Protective Glass
Anti-reflective, optically bonded

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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