CORE SYSTEMS



RUGGED AR107 - TACTICAL COMPUTER

Compact Intelligence for Extreme Environments

Built to thrive where ordinary computers fail, the **Rugged AR107** delivers enterprise-grade processing power in a hardened, compact chassis engineered for mission-critical performance. Equipped with the **Intel Core™ Ultra 9 Processor Series 2 and up to 96GB of DDR5 memory**, it's purpose-built to handle AI, sensor fusion, and data-heavy workloads directly at the tactical edge.

Designed for extreme environments, the AR107 balances raw performance with rugged dependability. Its **integrated internal UPS** ensures uninterrupted operation even during sudden power loss. From unmanned systems to mobile command and industrial edge deployments, the AR107 redefines field computing performance.

- Onboard UPS battery backup
- Tested to meet military standards
- Built in the USA

Featured Specifications

- Intel Core™ Ultra 9, 24 cores
- Up to 96GB DDR5 6400MT/s
- 4x 10GbE + Two 2.5GbE ports
- Integrated UPS
- 3x USB-A
- 1x USB-C
- 2x HDMI Ports
- TPM 2.0
- Rugged MIL-Spec Chassis

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Technical Specifications

Dimensions
Height: 3.5 inches, Width: 8.1 inches, Depth: 9.1 inches

CPU
24x Intel® Core Ultra 9 Cores

RAM
Up to 96GB DDR5

Video
2x HDMI 2.1
2x Display Ports

USB
3x USB Type-A
1x USB Type-C

Power
Integrated UPS

Chassis
Rugged MIL-Spec Chassis

Network
4x 10GbE
2x 2.5GbE ports

Security
1x TPM 2.0 onboard

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.

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