



RUGGED AR901 MISSION COMPUTER

Military-Grade Tactical Computer

The **Rugged AR901** is a compact, fully sealed mission computer designed for harsh, military environments. Its fanless, conduction-cooled aluminum chassis ensures silent, maintenance-free operation. Powered by an Intel® dual-core processor 3.0GHZ with 32GB 3200MT/s DDR4 RAM, it delivers reliable performance for mission-critical and cross-domain use. With seven LAN ports, HDMI output, and dual USB 2.0 ports, its swap-optimized enclosure provides robust connectivity and durability.

Tested to MIL-STD-810 and MIL-STD-461 standards, the AR901 operates at altitudes up to 12,500 ft and is transport-survivable to 40,000 ft. Optional EMI filtering ensures CE and RE compliance, making it ideal for tactical, aerospace, and rugged edge computing applications.

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

Featured Specifications

CPU

Intel Dual Core 3.0GHZ

Ethernet

6x M12 connectors

1x MIL-circular RJ45 connectors

RAM

32GB 3200MT/s DDR4

Power

24VDC

Chassis Type

Aircraft-Grade Aluminum



Technical Specifications

Dimensions

Height: 4.00 inches, Width: 8.75 inches, Depth: 7.00 inches
Weight: 7 lbs

CPU

Intel Dual Core 3.0GHZ

Power

24VDC

RAM

32GB 3200MT/s DDR4

Ethernet

6x M12 connectors
1x MIL-circular RJ45 connectors

HDD

960GB SSD

Video Port

HDMI

Battery

Front Removable CMOS Battery

USB Ports

2x USB 2.0 Ports

Chassis

Lightweight aluminum chassis

Environmental Specifications

Operational Temperature

MIL-STD-810F, Method 501.5, Procedures I; -15°C to +55°C

Storage Temperature

MIL-STD-810F, Method 501.5, Procedures II; -55°C to +85°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, 5-2000Hz, 60 min/axis

Shock

MIL-STD-810G, Method 516.6: 20g, 11ms functional; 40g, 11ms crash hazard

EMC

MIL-STD-461F: CE & RE emissions

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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

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