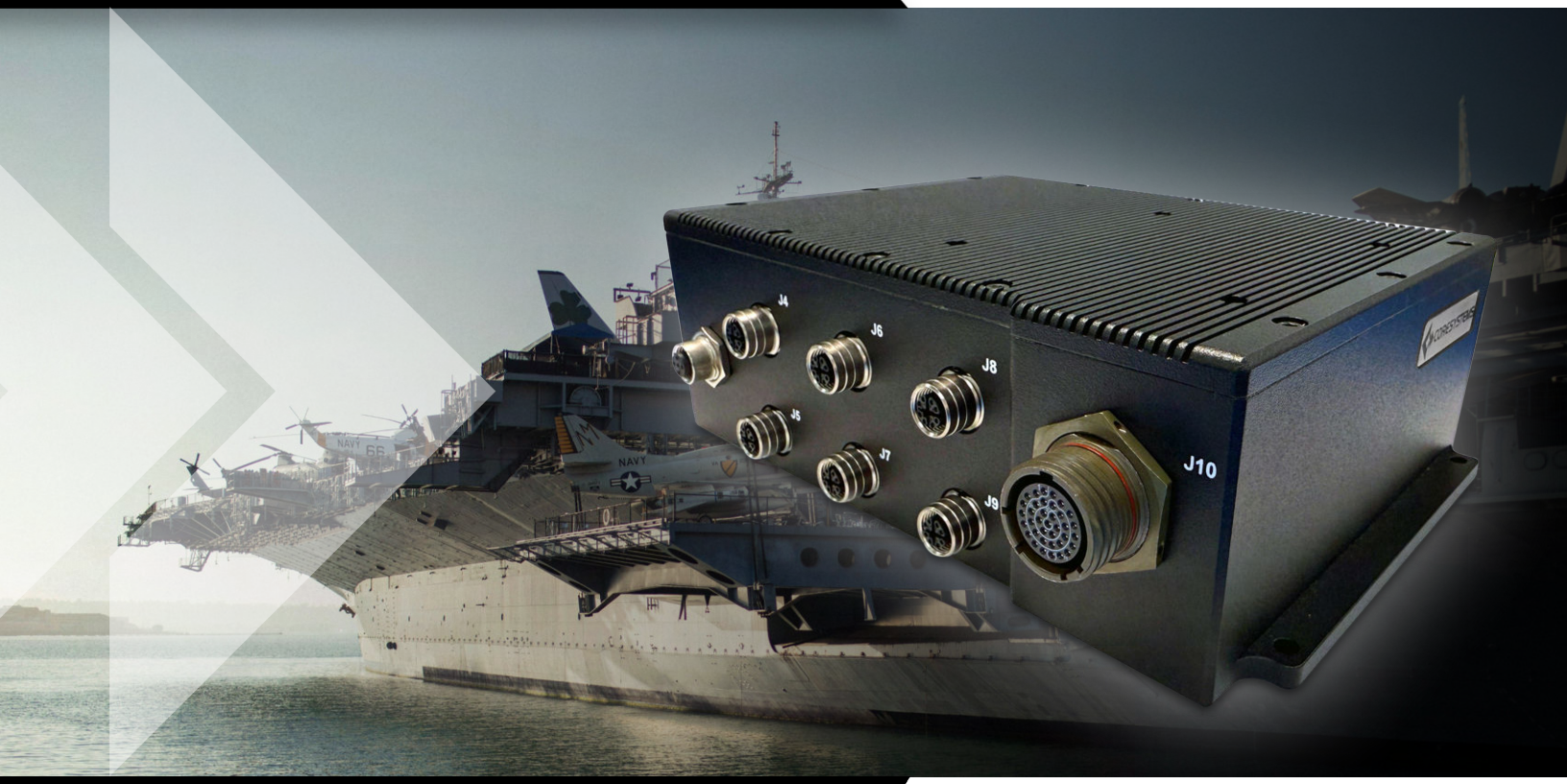
CORE SYSTEMS



RUGGED AR901 MISSION COMPUTER

Military-Grade Tactical Computer

The Rugged **AR901** is a compact, fully sealed mission computer designed for harsh, low-SWaP environments. Its fanless, conduction-cooled aluminum chassis ensures silent, maintenance-free operation. Powered by 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 4.00″ × 8.75″ × 7.00″, 8 lb enclosure provides robust connectivity and durability.

Tested to MIL-STD-810 and MIL-STD-461 standards, the AR901 withstands shock, vibration, humidity, and temperatures from –15 °C to +55 °C. It 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
7x independent LAN ports
(6x M12 / 1x MIL-circular RJ45 connectors)

RAM
32GB 3200MT/s DDR4

Power
24VDC

Chassis Type
Aircraft-Grade Aluminum

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RUGGED AR901 MISSION COMPUTER

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
7x independent LAN ports (6x M12 / 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/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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