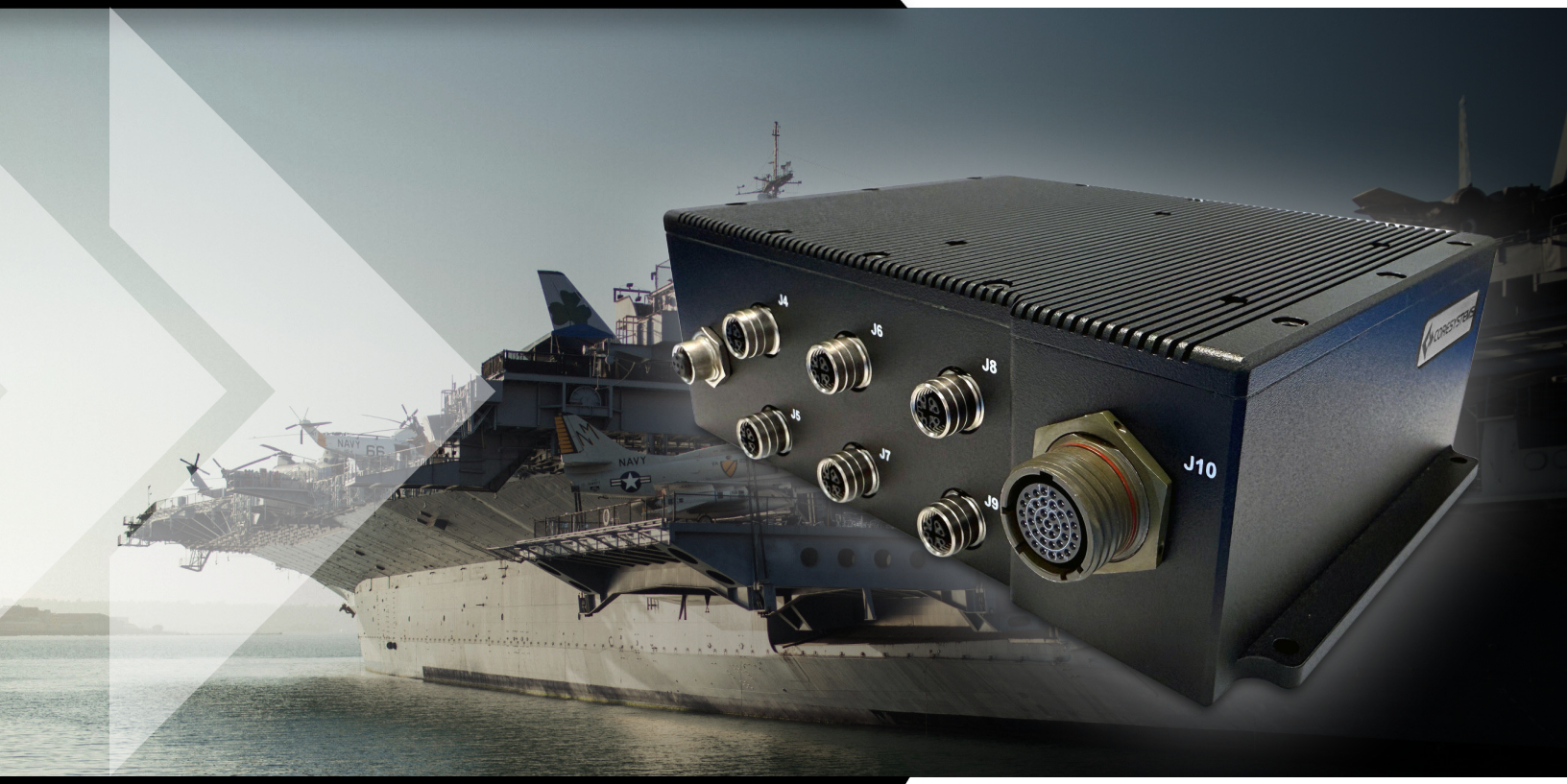
CORE SYSTEMS



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

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CORE SYSTEMS

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
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
-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: 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.



Core Systems
13000 Danielson St
Poway, CA 92064