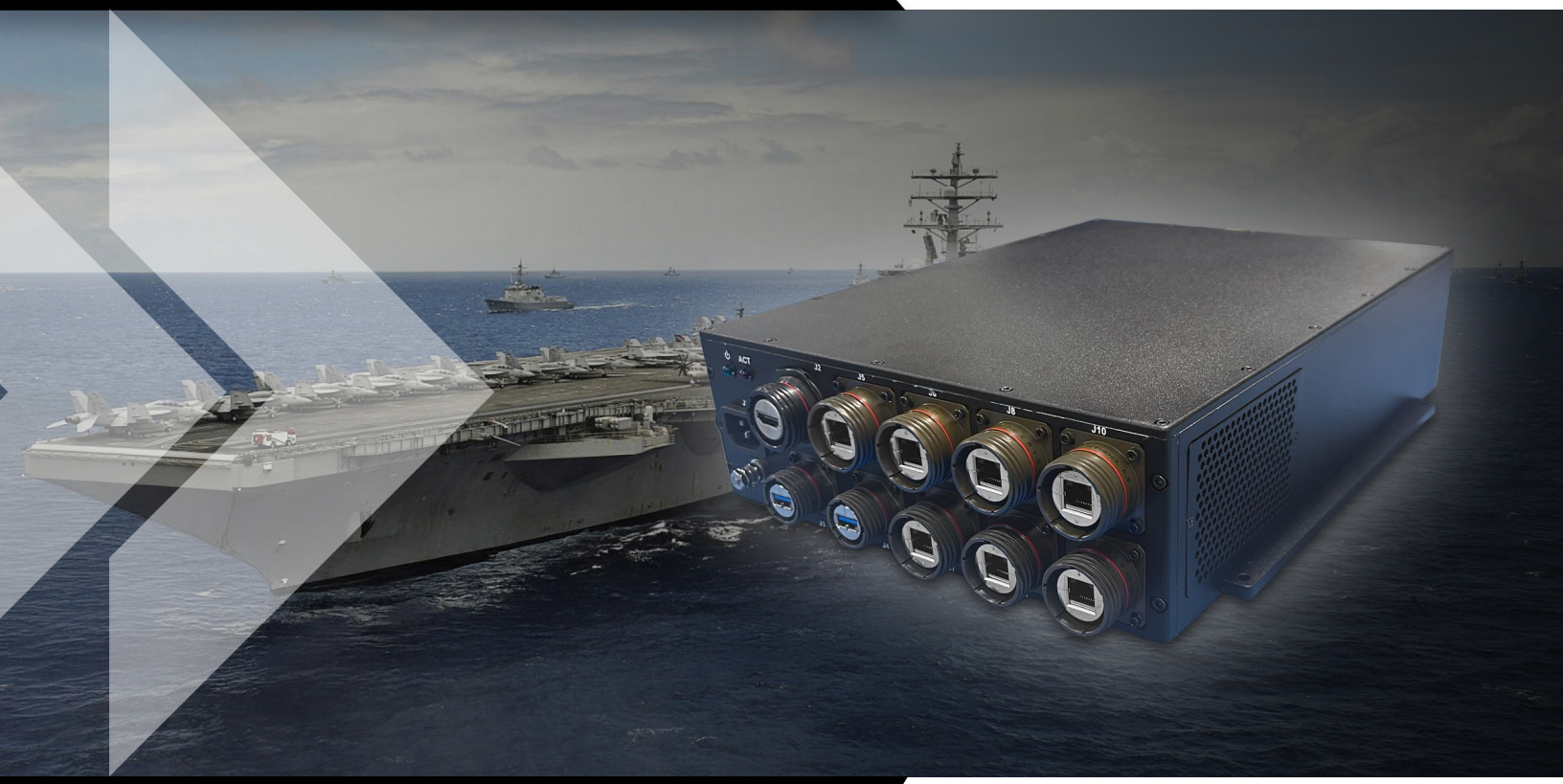
CORE SYSTEMS



RUGGED AR902 MISSION COMPUTER

Military-Grade Tactical Computer

The Rugged AR902 is a tactical computer designed to deliver high performance and reliability in extreme military environments. Powered by the Intel® Core™ Ultra 9 285K processor running up to 5.7 GHz, this rugged system supports real-time data processing, mission planning, sensor fusion, and edge analytics. With 96 GB of high-speed DDR5 memory and a 1.92 TB NVMe SSD, the AR902 handles critical mission datasets and applications.

The AR902 features seven RJ45 Ethernet ports for networking across multiple devices. Additional I/O includes two USB 3.0 ports and a dedicated HDMI video output for display integration. Housed in a SWaP-optimized rugged chassis, the AR902 combines a compact form factor with durability and thermal efficiency. The unit is MIL-SPEC tested for shock, vibration, and environmental resilience, ensuring dependable operation in harsh conditions.

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

Featured Specifications

CPU
Intel Core Ultra 9 Processor 285K

Ethernet
7x RJ45 Connectors

RAM
2× 48GB DDR5 5600 MT/s

Power
500W

Chassis Type
Aircraft-Grade Aluminum

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CORE SYSTEMS

RUGGED AR902 MISSION COMPUTER



Technical Specifications

Dimensions
Height: 3.48 inches, Width: 11.375 inches, Depth: 13.6 inches
Weight: 9 lbs

CPU
Intel® Core™ Ultra 9 Processor 285K

Power
500W

RAM
2× 48GB DDR5 5600 MT/s

Ethernet
7x RJ45 Connectors

HDD
1× 1.92TB NVME SSD

Video Port
1x HDMI

USB Ports
2x USB 3.0 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-810, Method 507.4: 95% RH, 48 hours at 40 – 65°C

Altitude
MIL-STD-810, Method 500.4: 12,500 ft operation; 40,000 ft transport

Vibration
MIL-STD-810, Method 514.6: 4.43 GRMS, 5-20000Hz, 60 min/axis

Shock
MIL-STD-810, 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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