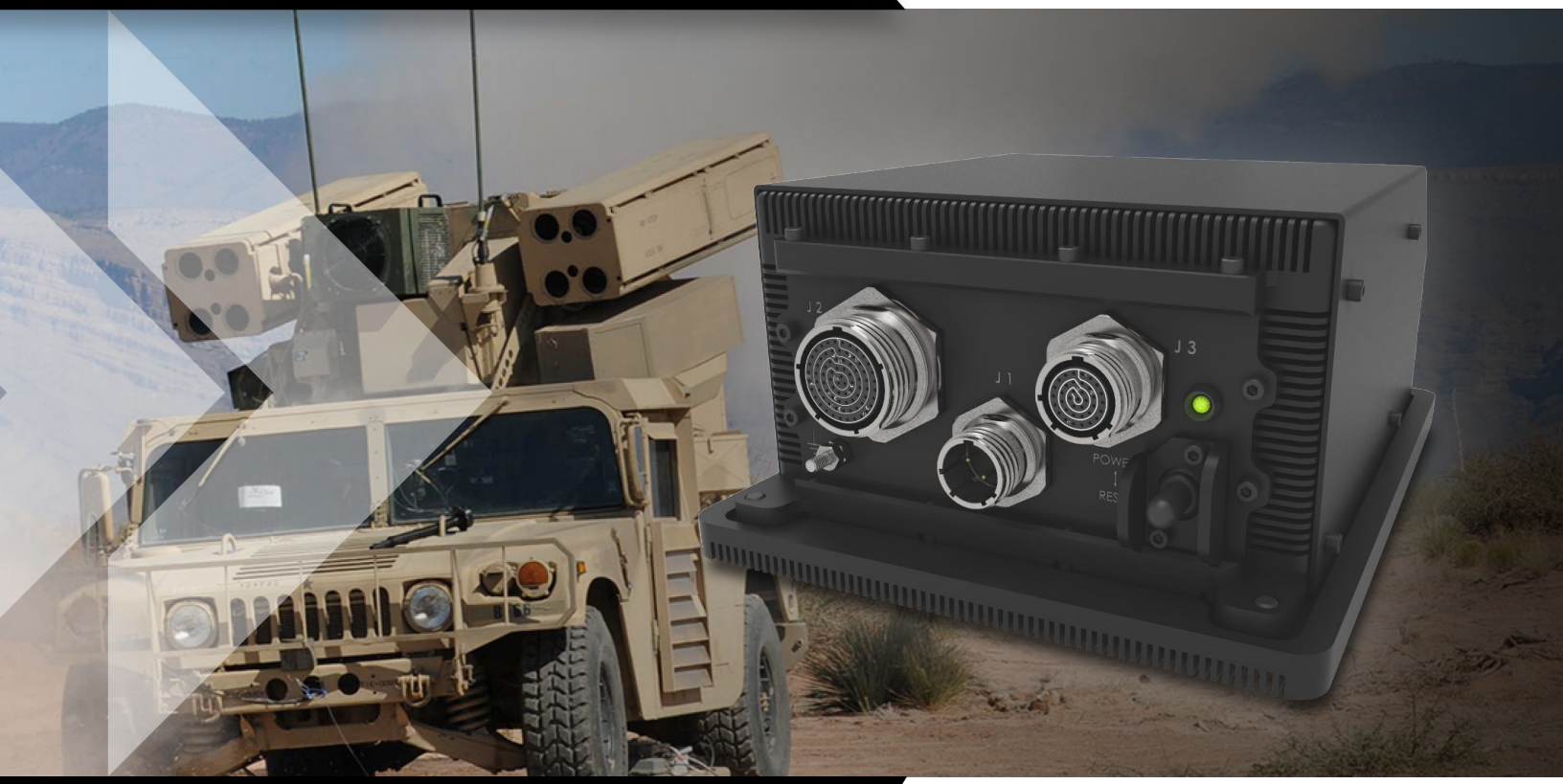
CORE SYSTEMS



RUGGED AR4 MISSION COMPUTER

Military-Grade Tactical Computer

The **Rugged AR4** is a tactical mission computer engineered for high-performance computing in SWaP-constrained environments. Engineered with a fully sealed, conduction-cooled chassis, the AR4 withstands extreme temperatures, shock, and vibration without fans or moving parts. Its compact design and proprietary thermal transfer technology make it ideal for military, aerospace, and mobile platform applications.

Powered by the latest generation quad-core processing technology, the AR4 delivers reliable edge computing performance while supporting up to four internal expansion cards for application-specific I/O, including MIL-STD-1553 and GPS. Designed for demanding mission environments, the AR4 provides a flexible and customizable platform for rugged computing and advanced connectivity.

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

Featured Specifications

CPU
Latest Intel Quad-Core

Cores
4-12x

RAM
8GB

Power
28VDC

Chassis Type
Aircraft-Grade Aluminum

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RUGGED AR4 MISSION COMPUTER



Technical Specifications

Dimensions
Height: 4.60 inches, Width: 6.15 inches, Depth: 7.50 inches
Weight: 6.50 lbs

CPU
Latest Intel Quad-Core options

Power
28VDC

RAM
8GB

I/O Expansion
Optional 1553, GPS, and D/A modules

Storage
One (1) to Two (2) drives SSD 2.5

Cores
4-12x

Cooling
Fully conduction-cooled, fanless design

Chassis
Lightweight aluminum chassis

Enviromental 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, 5-20000Hz, 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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