



## RUGGED AR2 MISSION COMPUTER

### Military-Grade Tactical Computer

The **Rugged AR2** is a compact, SWaP-optimized tactical mission computer built for harsh military and aerospace environments. Featuring a fully sealed, conduction-cooled chassis, it uses proprietary thermal transfer technology to eliminate moving parts while delivering reliable performance in extreme temperature, shock, and vibration conditions. Its rugged, application-specific design makes it ideal for deployed edge computing and mobile mission systems.

Powered by the latest Intel® quad-core processor technology, the AR2 delivers high-performance computing in a lightweight small form factor package. Supporting up to four internal expansion cards for added I/O flexibility, including 1553, GPS, and D/A interfaces, the AR2 is tested to military specifications for dependable operation in mission-critical deployments.

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

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### Featured Specifications

**CPU**

Latest Intel Quad-Core

**Cores**

4-12x

**RAM**

4GB

**Power**

28VDC

**Chassis Type**

Aircraft-Grade Aluminum



## Technical Specifications

### Dimensions

Height: 4.75 inches, Width: 6.12 inches, Depth: 7.00 inches  
Weight: 6.50 lbs

### CPU

Latest Intel Quad-Core options

### Power

28VDC

### RAM

2GB

### I/O Expansion

Supports up to four internal expansion cards for additional I/O capability, including MIL-STD-1553, GPS, and D/A interfaces

### Cores

4-12x

### Cooling

Fully conduction-cooled

### 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.

### Core Systems

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