



## RUGGED AR3 MISSION COMPUTER

### Military-Grade Tactical Computer

The **Rugged AR3** is a rugged, SWaP-optimized tactical mission computer designed for reliable operation in extreme military and aerospace environments. Built with a fully sealed, conduction-cooled chassis, the AR3 is engineered to withstand harsh temperature, shock, vibration, and humidity conditions while maintaining dependable performance in mission-critical deployments.

Powered by the latest Intel® processors, the AR3 supports expanded I/O capability with multiple internal card options including 1553, GPS, and D/A modules. Its compact form factor and rugged design make it ideal for command, control, ISR, and edge computing applications where size, weight, power, and reliability are critical.

- 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



## Technical Specifications

### Dimensions

Height: 4.40 inches, Width: 7.50 inches, Depth: 7.30 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

### Cores

4-12x

### Cooling

Fully conduction-cooled, fanless design

### 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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