



RUGGED AR5D MISSION COMPUTER

Military-Grade Tactical Computer

The **AR5D** is a rugged tactical mission computer from Core Systems designed for secure, high-reliability operation in demanding environments. Featuring two fully independent Red/Black systems in a sealed, conduction-cooled enclosure, it delivers silent, maintenance-free performance for defense and aerospace applications where data separation and durability are critical.

Built with the latest Intel® chipset technology and dual 1.91GHz quad-core CPUs, each system provides reliable processing with integrated Intel® HD Graphics and DisplayPort output. The AR5D includes USB 2.0 and 3.0 ports, multiple Gigabit Ethernet connections with remote boot and PoE support, along with timer/counters and I2C functionality—making it a robust solution for secure, mission-critical computing at the tactical edge.

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

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Featured Specifications

CPU

Intel E3845 CPU - 1.91GHz Quad-core
10W TDP (per unit)

Ethernet

8x Gigabit Ethernet (GbE)

RAM

8GB

Power

28VDC

Chassis Type

Aircraft-Grade Aluminum



Technical Specifications

Dimensions

Height: 2.20 inches, Width: 3.70 inches, Depth: 5.60 inches
Weight: 4.00 lbs

CPU

Intel E3845 CPU - 1.91GHz Quad-core - 10W TDP (per unit)

Power

28VDC

RAM

8GB

Ethernet

8x Gb Ethernet

Video

Intel HD Graphics
DisplayPort output (DP++)

Expansion

2x PCIe (per unit)

USB Ports

2x USB 2.0
1x USB 3.0

Chassis

Lightweight aluminum chassis

Environmental Specifications

Operational Temperature

MIL-STD-810, Method 501.5, Procedures I/II: -15°C to +55°C

Storage Temperature

MIL-STD-810, Method 501.5, Procedures I/II: -15°C to +55°C

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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