CORE SYSTEMS



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

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

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Technical Specifications

Dimensions
Height: 2.20inches, 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
-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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