

RUGGED AR5 MISSION COMPUTER

Rugged System Built for Extreme Environments

The Rugged AR5 tactical mission computer from Core Systems is fully sealed and conduction cooled. The AR5 has 1 removable sealed tray for CPU and SSD drive. It also includes 38999 MIL-Circular connectors for I/O and power. The latest mission computer from Core Systems includes the latest Intel® Chipset technology with 1.91GHz max clock speed.



CUSTOM BUILT
RUGGED SYSTEM



RUGGED TACTICAL COMPUTER

- ▶ ALL-ALUMINUM CHASSIS
- ▶ ADVANCED COOLING TECH
- ▶ POWER SUPPLY OPTIONS
- ▶ MIL-SPEC TESTED
- ▶ BUILT IN THE USA



The AR5 is tested to meet MIL-STD-810G & DO-160G Shock, Vibration, Thermal, Altitude, and Humidity. The two USB 3.0 and two USB 2.0 ports support keyboard, mouse, and other devices. Also included is a RS-232 port, three 8254 timer/counters, and I2C support. There are eight Gigabit Ethernet (GbE) ports with remote boot support and PoE functionality. Other features include integrated Intel HD Graphics with Display Port output.

For more info on the Rugged AR5, please visit www.core-systems.com

unitronix
THE EMBEDDED EDGE

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RUGGED AR5 MISSION COMPUTER

TECHNICAL SPECIFICATIONS

MECHANICAL	Height - 1.1 in (2.794 cm), Width - 4.7 in (11.93 cm), Depth - 5.6 in (14.22 cm) Weight - 2 lbs (0.9 kg)
CPU	Intel® CPU architecture options from Intel embedded long-life roadmap Embedded long-life roadmap Heat pipe technology heatsinks used Intel® 1.86 GHz Core 2 Duo ULV CPU Single core CPU with integrated graphics chip
MEMORY	8GB Total System RAM - 1x 8GB DDR3L/1333MHz Module
PROCESSOR	Intel E3845 CPU - 1.91GHz Quad-core - 10W TDP
HARD DRIVE	1x 128GB Solid State Drive
POWER SUPPLY	18VDC

ENVIRONMENTAL SPECIFICATIONS

OPERATIONAL TEMP.	MIL-STD-810F, Method 501.5 Procedures I/II; -15°C to +55°C
STORAGE TEMP.	MIL-STD-810F, Method 501.5, Procedures I/II; -55°C to +85°C
HUMIDITY	MIL-STD-810F, Method 507.4; 48 Hour, 95% RH 40-65C (with conformal coat option)
ALTITUDE	MIL-STD-810F, Method 500.4; 12,500ft operation with 40,000ft transport
VIBRATION	MIL-STD-810G, Method 514.6 Procedure I; 4.43 GRMS, 5-20000Hz, 60min/axis
SHOCK	MIL-STD-810G, Method 516.6, Procedures I/V; 20g, 11msec - functional shock; 40g, 11msec crash hazard shock
OTHER	MIL-STD-461F CE & RE emissions (with 461 filter option)



ABOUT US

Core Systems is a premier manufacturer of best-in-class rugged computers and rugged displays. We design and manufacture all of our products in Poway, California. Our 65,000+ square foot facility features onsite engineering, assembly, and testing along with a complete metal fabrication and machining facility. Our wide range of rugged products are deployed in ground vehicles, aircraft, and maritime installations worldwide.