

# 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](http://www.core-systems.com)**

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## 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)

**CORE SYSTEMS**  
ENGINEERED TO PERFORM

### 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.