

# RUGGED AR1 MISSION COMPUTER

*Rugged System Built for Extreme Environments*

The AR1 is a small, rugged, and SWaP-optimized tactical mission computer with a Core i3 4th Gen Quad Core CPU and one internal SSD drive. The AR1 is fully conduction cooled and allows for the addition of up to two internal cards (1553, GPS, D/A, etc) for expanded IO capability.



**CUSTOM BUILT  
RUGGED SYSTEM**

***RUGGED TACTICAL COMPUTER***

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



This rugged mission computer utilizes proprietary thermal transfer technology to cool the system without the use of moving parts. The chassis is completely sealed and is built to survive extreme temperature, shock, and vibration.

**For more info on the Rugged AR1, please visit [www.core-systems.com](http://www.core-systems.com)**

**unitronix**  
THE EMBEDDED EDGE

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# RUGGED ARI MISSION COMPUTER

## TECHNICAL SPECIFICATIONS

MECHANICAL	Height - 2.0 in (5.08 cm), Width - 13.33 in (7.75 cm), Depth - 7.75 in (19.68 cm) Weight - 5 lbs (2.26 kg)
CPU	Intel® CPU architecture options from Intel embedded long-life roadmap; Vapor chamber technology heatsink; Quad-Core CPU options
MEMORY	4GB DDR3 1066MHz 204pin
PROCESSOR	Embedded 3.5" Quad Core CPU SBC
STORAGE	One (1) internal SATA or SAS 2.5" HDD
POWER SUPPLY	Option 1- (std) 120/240VAC 30W power supply Option 2- 28VDC power supply

## 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.