

# RUGGED AR401 MISSION COMPUTER

## *Rugged System Built for Extreme Environments*

The AR401 is a small, rugged, and SWaP-optimized tactical mission computer with a Core i7 2.3GHz 4th Gen Quad Core CPU and internal SSD drive. It's fully conduction cooled and allows for the addition of up to four 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



The AR401 utilizes proprietary thermal transfer technology to cool the system without the use of moving parts. It's completely sealed and is built to survive extreme temperature, shock, and vibration.

The rugged AR401 mission computer is built with 6061T-651 strain hardened structural solid blocks of aircraft aluminum to provide unmatched structural rigidity. All outer MIL-Spec circular connectors are sealed and water tight, ensuring the entire AR401 chassis is completely sealed from elements.

**For more info on the Rugged AR401, please visit [www.core-systems.com](http://www.core-systems.com)**

# RUGGED AR401 MISSION COMPUTER

## TECHNICAL SPECIFICATIONS

MECHANICAL	Height - 4.6 in (11.684 cm), Width - 6.15 in (15.621 cm), Depth - 7.5 in (19.05 cm) Weight - 6.5 lbs (2.95 kg)
CPU	4th Gen Intel Core i5/i7 Processors
MEMORY	8GB DDR3 1066MHz 204pin
PROCESSOR	Intel® i7-4700EQ, 2.3GHz CPU, 8GB DDR3, VGA/DisplayPort, LVDS, HDMI eDP, 4xSATA w/RAID, 10-USB, 2-GBLAN, HD Audio, 2x RS232, GPIO Port
HARD DRIVE	One (1) to Two (2) drives SSD 2.5
POWER SUPPLY	PCIE/104 AC or DC

## 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.