



Rugged AR403 Mission Computer

SWAp-Optimized Tactical Mission Computer



The Core Systems AR403 is a small form-factor tactical milled computer with conduction cooled design. The AR403 is designed to meet MIL-STD-810F and MIL-STD-901D. It is equipped with dual removable 2.5" sealed trays for hard drive or solid state drives. There are 38999 MIL circular and panel mount connectors for I/O and power (external cables optional).

Form-Factor Tactical Milled Computer

Chassis Dimensions: 9.41"D x 6.14"W x 6.58"H

Drive Count: Two (2) 2.5" SSD drives

CPU Series: Dual Quad-Core or dual Hexa-Core CPU options

Power Supply Option: 50W AC power supply or 28VDC option

Type of Chassis: Machined T-6 aircraft aluminum



Technical Specifications

Environmental Specifications:	Operational Temperature Range: MIL-STD-810F/G, Method 501.5, Procedures I/II; -10C to +50C with solid state drives Storage: MIL-STD-810F/G, Method 501.5, Procedures I/II; -40C to +75C Humidity: MIL-STD-810F/G, Method 507.4; 48 hour, 95% RH 40-65C with humidity option Altitude: MIL-STD-810F/G, Method 500.4; 12,500ft operation with 40,000ft transport Vibration: MIL-STD-810F/G, Method 514.6 Procedure I; 4.43 GRMS, 5-20000Hzz, 60min/axis with solid state drives Shock: MIL-STD-810F/G, Method 516.6, Procedures I/V; 20g, 11msec functional shock; 40g 11msec crash hazard shock Other: MIL-STD-461F/G CE102 & RE102; Meets using CORESYSTEMS optional 461 EMI Kit
Mechanical:	Height - 6.58 in (16.71 cm), Width - 6.14 in (15.60 cm), Depth - 9.41 in (23.90 cm), Weight - 5 lbs (2.26 kg)
CPU:	Intel® CPU architecture options from Intel embedded long-life roadmap; Vapor chamber technology heatsinks; Nehalem-EP and Westmere-EX; Dual Quad-Core or dual Hexa-Core CPU options
Drive Count:	Two (2) 2.5" SSD drives
Power Supply Options:	Option 1- (std) 115/240VAC w/PFC 50W power supply; Option 2- 28VDC power supply
System Board:	Embedded SBC, Intel Core i7 CPU, 32GB DDR3, DB9 Serial, HDMI, VGA, 6-USB, 2-GBLAN, Audio

Services

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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 55,000+ square foot facility features onsite engineering, assembly, and testing along with a complete metal fabrication and machining facility. Core Systems is one of the only vertically integrated rugged computer manufacturers in the nation. Our diverse family of rugged products are deployed in ground vehicles, aircraft, and maritime installations worldwide.

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WWW.CORE-SYSTEMS.COM

888-584-CORE(2673)

Core Systems, 13000 Danielson St., Q
Poway, CA, 92064

Learn about the Rugged AR403
Mission Computer here: <https://core-systems.com/rugged-ar403-tactical-computer/>

