

# RUGGED PC001 MISSION COMPUTER

*Rugged System Built for Extreme Environments*

The rugged PCC01 Mission Computer from Core Systems is a rugged custom-built sealed fanless tactical computer build for the military. It has an extended temperature design with a range of -40C to +85C. This rugged mission computer includes a 500GB solid state drive which is installed in a removable carrier.



**CUSTOM BUILT  
RUGGED SYSTEM**

***RUGGED TACTICAL COMPUTER***

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



The rugged PCC01 conduction-cooled tactical computer has been tested for MIL-S-901D Shock, MIL-STD-167-1 Vibration, MIL-STD-810G Shock & Vibration, MIL-STD-810F Humidity, and MIL-STD-461E/F EMC.

**For more info on the Rugged PC001, please visit [www.core-systems.com](http://www.core-systems.com)**

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THE EMBEDDED EDGE

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## TECHNICAL SPECIFICATIONS

MECHANICAL	Height - 6.5 in (16.51 cm), Width - 11 in (27.94 cm), Depth - 11 in (27.94 cm) Weight - 6.5 lbs (2.94 kg)
CPU	Intel® CPU architecture options from Intel embedded long-life roadmap Vapor chamber technology heatsinks Nehalem-EP and Westmere-EX Dual Dual-Core, dual Quad-Core or dual Hexa-Core CPU options
MEMORY	8GB Total System RAM - 1x 8GB DDR3L-DRAM/1600MHz Module
PROCESSOR	4th generation Intel Core i7 Dual Core Processor
HARD DRIVE	Option 1- (std) One (1) 2.5" 500GB SSD drive
POWER SUPPLY	PC/104 115W Power Module – Voltage Range 14~36V

## 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.