CORE SYSTEMS



RUGGED PCC MISSION COMPUTER

Military-Grade Tactical Computer

The **PCC** is a rugged, sealed mission computer from Core Systems built for performance in harsh military and industrial environments. Designed as a fanless, conduction-cooled system, it features a fully enclosed chassis for protection against dust, moisture, and extreme conditions. With an extended operating range of -40°C to +85°C and tested to military standards for shock, vibration, humidity, and EMC, the PCC is ideal for demanding tactical and mobile deployments.

Equipped with a 500GB solid-state drive in a removable carrier, the PCC delivers dependable performance with secure, serviceable storage. Its application-specific, military-grade design allows for customization to meet mission requirements, making it a compact and reliable solution for defense, aerospace, and field-deployed systems.

- Application-specific design
- Tested to meet military standards
- Built in the USA

Featured Specifications

CPU
Latest Intel CPU

Storage
One (1) 2.5” 500GB SSD drive

RAM
8GB

Power
28VDC

Chassis Type
Aircraft-Grade Aluminum

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Technical Specifications

Dimensions
Height: 6.50 inches, Width: 11.00 inches, Depth: 11.00 inches
Weight: 6.50 lbs

CPU
Latest Intel CPU

Power
28VDC

RAM
8GB

Storage
One (1) 2.5" 500GB SSD drive

Cores
4-12x

Chassis
Lightweight aluminum chassis

Enviromental Specifications

Operational Temperature
-15°C to +55°C; MIL-STD-810F, Method 502.4 Procedure II (Low Temperature) and Method 501.4 Procedure II (High Temperature)

Storage Temperature
-55°C to +85°C; MIL-STD-810F, Method 502.4 Procedure I (Low Temperature) and Method 501.4 Procedure I (High Temperature)

Humidity
MIL-STD-810F, Method 507.4: 95% RH, 48 hours at 40 – 65°C

Altitude
MIL-STD-810F, Method 500.4: 12,500 ft operation; 40,000 ft transport

Vibration
MIL-STD-810G, Method 514.6: 4.43 GRMS, 5-20000Hz, 60 min/axis

Shock
MIL-STD-810G, Method 516.6: 20g, 11ms functional; 40g, 11ms crash hazard

EMC
MIL-STD-461F: CE & RE emissions

Work With Core Systems Today

Core Systems designs and builds rugged servers, displays, mission computers, and integrated cabinet solutions for military and industrial applications. From our 85,000 sq. ft. San Diego facility, we deliver cutting-edge, durable computing solutions for mission-critical needs.

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