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SBS Technologies.

ROC Vehicle CPU

The SBS Technologies Rugged Operation Computer (ROC) defines a new standard for deployable, compact vehicle computers.

The lightweight, ruggedized ROC vehicle computer is a powerful and compact computing system based on PCI Mezzanine Cards (PMCs). Weighing less than six pounds and displacing less than 100 cubic inches, the ROC measures 3.5" (H) x 4.2" (D) x 6.8" (W) and fits well into the tight spaces usually found in military vehicle applications.

ROC systems are designed to operate in extreme temperature, shock, and vibration environments. They include an integrated EMI filter and power supply with power sensing circuitry.

Featuring PowerPC or Intel Pentium processors and a wide range of I/O options, ROC systems are perfect for avionics or vehicle management applications where size and weight are critical.

SBS supports many embedded operating systems such as VxWorks, INTEGRITY, Microsoft Windows XP, and Linux.

Thanks to the capabilities of the latest Processor PMCs , ROC systems are very small but can still provide enough processing power to run the most demanding vehicular applications. Because they are COTS-based systems, they enable a great deal of I/O flexibility. The result is amazing power right in the palm of your hands.

Originally developed for airborne avionics, the ROC concept has expanded to include ground combat vehicle and personnel applications where rock-solid performance, reliability, flexibility, physical robustness, weight, power, and space are all critical considerations. Since program requirements are often diverse, we offer the ROC in multiple configurations to address that diversity. Each configuration addresses common requirements typically seen in flight and mission management, data acquisition processing and storage, situational awareness, and reconnaissance.

FEATURES:

- Lightweight (5.75 lbs) rugged computer fits in the palm of your hand

- Versatile system architecture based on standard PMC modules

- Designed for extended temperature, harsh vibration, shock, and EMI environments

- Pentium M configurations up to 1.1 GHz and PPC configurations to 450 MHz

- Up to five conduction-cooled PMC cards (excluding power supply)

- Optional solid-state flash disk up to 128 Gb

- Up to three system stackable, dual PMC carriers

- Inputs and outputs – Eight high-speed serial channels; digital and analog I/O

- Materials and finish – Conduction-cooled milled aluminum 6061-T651; black anodized external finish; chem film interior finish

- Hardware – Rugged LEMO push-pull connectors; airborne stacking (RC4) connectors for carrier interconnect; no internal wiring harness

For more information, contact: info@sbs.com

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