



RC-2

Two Slot Rugged Chassis

Embedded real-time control and signal processing sub-systems must deliver the highest reliability without sacrificing or compromising performance or I/O while providing protection from the external environment.

The RC-2 provides a superior rugged enclosure for up to two full-size 6U x 160mm VMEbus (ANSI/IEEE 1101.2-1992) or two 6U or four 3U Compact PCI (ANSI/VITA 30.1-1998) conduction-cooled modules for tightly spaced, high density computing applications. Utilizing high-grade machined aluminum alloys and protective chemical finishes, the RC-2 combines with the latest in tightly toleranced machining and low cost assembly processes providing programs with a rugged, lower cost sealed enclosure.



To ensure the best possible I/O flexibility, rapid quick-turn prototyping along with the lowest development costs, the RC-2 supports a Wirewrap™ backplane for the module's user-defined I/O combined with discrete panel wiring. Once the subsystem development cycle is complete, a printed circuit backplane with Flex cable to the I/O panels will minimize manufacturing and subassembly costs and maximize reliability for higher subsystem quantities.

Considering the requirements for technology insertion and high-speed, differential data, serial fabric communication architectures, all backplane I/O lines can be impedance balanced and length matched to minimize differential latency thereby increasing data integrity. An extended life span is also an integral part of the RC-2. Curtiss-Wright

Controls Embedded Computing's unique and unparalleled TMI™ (Technology Migration and Insertion) program supports our customers' configuration and logistics management requirements for COTS products.

The performance of the RC-2 is fully modeled and verified with production quantities using the latest FEA tools to ensure its thermal characteristics meet the most demanding applications. Customization options include all aspects including front panel, power supply input voltage/output voltages and VMEbus or Compact PCI backplanes. Curtiss-Wright Controls Embedded Computing Classe 3 (rugged, conduction-cooled) Single Board Computers (SBCs), I/O modules and high accuracy platform stabilization and autoloader controllers are perfectly matched for use in the RC-2.

For more information on our broad range of high-integrity computing solutions, please visit our website at www.cwembedded.com.

**CURTISS
WRIGHT** Controls
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About Our Subsystems Group

Curtiss-Wright's Subsystems Group specializes in integrated, embedded, real-time and mission-critical processing systems for the defense, aerospace and rugged industrial markets. Products include COTS subsystems, boards, chassis and integrated software product solutions based on VME and other industry standard, open systems architectures – all supported by the company's TMI program – a complete life-cycle management and logistics support service.

Curtiss-Wright's Subsystems Group designs and develops a wide variety of leading edge subsystem and board-level items including single board computers (SBCs), graphics, high-speed data fabrics, I/O, memory along with environmentally sealed chassis and enclosures, software integration and customized sub-systems. Applications for the company's products range from mission processor and control sub-systems for ground vehicles, surface and subsurface naval platforms, and tactical and strategic fixed- and rotary-wing aircraft, to low- and high-earth-orbit space vehicles and platforms.

Features

- ◆ Compact, low profile rugged enclosure
- ◆ Two slot, 6U VMEbus or Compact PCI backplane
- ◆ Modular, 28VDC input power supply module
- ◆ Integrated RFI/EMI filter
- ◆ Finned to safely dissipate over 130W to free air
- ◆ Removable/customizable front and rear I/O panels
- ◆ Discrete wire or Flex cable rear panel wiring
- ◆ Free-air or baseplate/conduction-cooled chassis
- ◆ Meets NBC wash-Down / Decon. Specifications

