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Find the *Excalibur Systems EXC-4000cPCI* at our website: ***Click HERE***

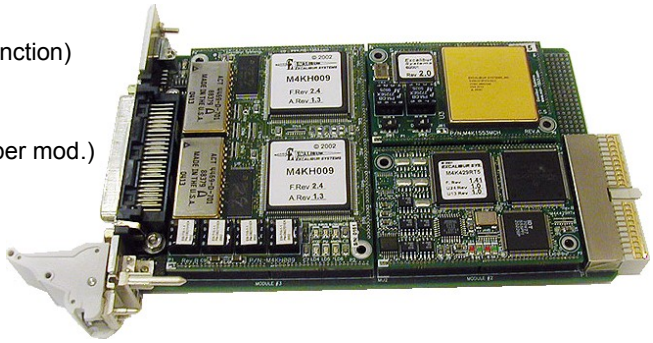
EXC-4000cPCI

AVIONICS COMMUNICATION CARRIER BOARD

The EXC-4000cPCI is part of the 4000 family of multiprotocol carrier boards. This cPCI interface board supports up to four independent, removable modules. Each module can be any of the 4000 family modules. The EXC-4000cPCI is standard 3U cPCI size. The EXC-4000cPCI6U is the same board in standard 6U cPCI size.

General Features

- Supported Protocols:
  - ARINC 429/575 (5 or 10 ch. per module)
  - ARINC 708/453 (2 ch. per module)
  - MIL-STD-1553 (single function or multifunction)
  - MIL-STD-1760
  - Discrete I/O (20 ch. per module)
  - Serial RS485/RS422/RS232 (2 or 4 ch. per mod.)
  - H009
  - CAN (2, 4, or 6 ch. per module)
  - MMSI
- Standard 3U or 6U cPCI size
- 16-bit Count Down Timer
  - 1–65,635 µs resolution
  - Interrupt or global reset upon count down



IRIG B Time Code Input

- Carrier wave:
  - 1KHz Amplitude modulated sine wave
- Rate Designation: 100 peaks per second
- Modulation ratio: 3:1
- Input Amplitude: 0.8–3.5 Vpp (3 Vpp Typ)
- Coded Expressions supported:
  - BCD time-of-year code word
  - Control functions
  - Straight Binary Seconds (SBS) time-of-day
- Application:
  - Synchronization of Time Tags, display and IRIG B time

Physical Characteristics for 3U Board

- Dimensions: 160mm x 100mm
- Weight: 152g (without modules)

Physical Characteristics for 6U Board

- Dimensions: 160mm x 233.35mm

Operation Environment

- Temperature: 0°–70°C standard temperature
  -40° to +85°C extended temperature (optional)
- Humidity: 5%–90% noncondensing
- MTBF: 197,200 hours at 25°C, G_F, S217F

Host Interface

- PCI compliance: Target 8/16 bit
- Memory space occupied:
  - 512 Kbytes (128K per module)
- Interrupts: INTA#
- Power: Depends on configuration. For more details, see the user's manual.

Software Support

- C drivers with source code
- Menu driven software for most of the supported protocols
- *Exalt Plus:* Excalibur Analysis Laboratory Tools for Windows 32/64-bit (optional)
- Additional software may be available on our website

Ordering Information

- **EXC-4000cPCI/*xx***
  - 3U size multi-protocol interface board for cPCI compatible systems
- **EXC-4000cPCI6U/*xx***
  - 6U size multi-protocol interface board for cPCI compatible systems

Note: Replace "***xx***" with the carrier board modules ordered. Use the module code specified in the *Module Ordering Information* on our website, or in the *User's Manual* of the board.

- Additional Options:
  - **-E** Extended temperature option
  - **-001** With conformal coating

June 2011, Rev A-2

These specifications are subject to change without notification

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