

EXC-4000PCI

The EXC-4000PCI is part of Excalibur's 4000 family of multiprotocol carrier boards. This PCI interface board supports up to four independent, removable modules. Each module can be any of the 4000 family modules.

General Features

- ◆ Supported Protocols (up to four removable modules):
 - MIL-STD-1553/1760 (single function or multifunction)
 - MMSI/AS5652
 - ARINC 429/575 (5 or 10 ch. per module)
 - ARINC 708/453 (2 ch. per module)
 - ARINC 717 (2 Tx ch., 2 Rx ch. per module)
 - ARINC 825 (2, 4, 6 or 10 ch. per module)
 - CAN (2, 4, or 6 ch. per module)
 - Serial RS-232/485/422 (2 or 4 ch. per mod.)
 - H009
 - Discrete I/O (20 ch. per module)
- ◆ 16-bit Count Down Timer
 - 1–65,635 μ s resolution
 - Interrupt or global reset upon count down
- ◆ Extended Temperature Option

IRIG B Time Code Input

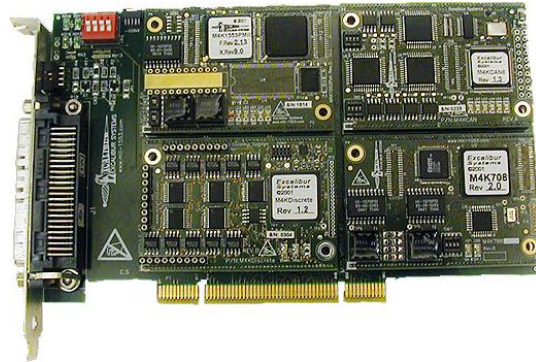
- ◆ Carrier wave:
 - 1KHz Amplitude modulated sine wave
- ◆ Rate Designation: 100 peaks per second
- ◆ Modulation ratio: 3:1
- ◆ Input Amplitude: 0.8–3.5 Vpp (3 Vpp Typ)
- ◆ Coded Expressions supported:
 - BCD time-of-year code word
 - Control functions
 - Straight Binary Seconds (SBS) time-of-day
-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

Physical Characteristics

- ◆ Dimensions: 174mm x 107mm
- ◆ Weight: 135g (without modules)

Operating Environment

- ◆ Temperature: 0°–70°C standard temperature
 - 40° to +85°C extended temperature (optional)
- ◆ Humidity: 5%–90% noncondensing
- ◆ MTBF: 201,400 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

- ◆ *Excalibur Carrier Board Software Tools:*
 - ◆ Intuitive and flexible API with source code
 - ◆ Compatible with 32/64-bit Windows 7/8/10/11 & Linux kernel 3.x/4.x/5.x
 - ◆ Includes application interface for NI LabView & CVI
- ◆ *Exalt Plus:* Excalibur Analysis Laboratory Tools for Windows (optional)
- ◆ GUI driven software for many of our supported protocols

Ordering Information

- ◆ **EXC-4000PCI/xx**
 - Multi-protocol interface board for PCI compatible systems
- Note:** Replace "xx" Replace "xx" with module codes. See **Ordering Information** in the board's user's manual.
- ◆ Additional Options:
 - E Extended temperature option
 - 001 With conformal coating