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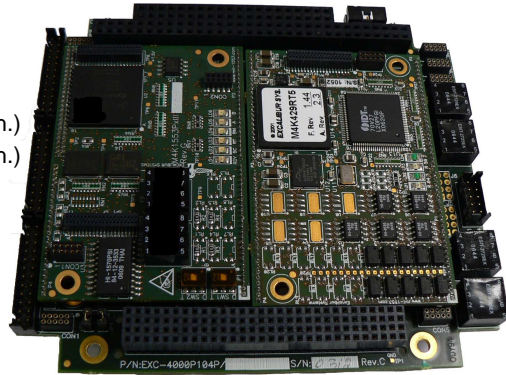
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EXC-4000P104plus

The EXC-4000P104plus is part of the 4000 family of multiprotocol carrier boards. This PC/104-Plus interface board is suitable for embedded and testing applications and supports up to five independent modules: three onboard modules and two removable modules. The onboard modules include one ARINC 429 module and two MIL-STD-1553 interface modules. Each removable module can be any of the 4000 family modules.

General Features

- ◆ Supported Protocols:
 - ARINC 429/575 (up to 30 channels)
 - ARINC 708/453 (up to 2 channels)
 - ARINC 825 (up to 20 channels)
 - MIL-STD-1553 (up to 4 single function or multifunction ch.)
 - MIL-STD-1760 (up to 4 single function or multifunction ch.)
 - Discrete I/O (up to 40 channels)
 - Serial RS485/RS422/RS232 (up to 8 channels)
 - H009 (1 channel)
 - CAN (up to 12 channels)
 - MMSI/AS5652 (up to 16 ports)
- ◆ Includes a stackthrough PC/104 connector
- ◆ 16-bit Count Down Timer
 - 1–65,635 μ s resolution
 - Interrupt or global reset upon count down
- ◆ Ruggedized and extended temperature options



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: 110.5mm – 95.88mm
- ◆ Weight: 95 g (without removable modules)

Operation Environment

- ◆ Temperature: 0°–70°C standard temperature
-40° to +85°C extended temperature (optional)
- ◆ Humidity: 5%–90% noncondensing
- ◆ MTBF: 215,800 hours at 25°C, G_F, S217F (with one onboard M4K429RT5 module)

Host Interface

- ◆ PCI compliance: Universal target 8/16 bit
- ◆ Memory space occupied: 1024 Kbytes
- ◆ Interrupts: INTA#
- ◆ Power: Depends on configuration. For more details, see the user's manual.

Software Support

- ◆ *Software Tools*: Advanced API with C source code. The Software Tools are available for several operating systems. See the Downloads section of our website for a complete list.
- ◆ Menu driven software for most of the supported protocols
- ◆ *Exalt Plus*: Excalibur Analysis Laboratory Tools for Windows 32/64-bit (optional)

Ordering Information

- ◆ **EXC-4000P104P/xx**
Multi-protocol interface board for PC/104-Plus compatible systems

Note: Replace “xx” with module codes. See **Ordering Information** in the board's user's manual.

- ◆ Additional Options:
 - E Extended temperature option
 - R Ruggedized option
 - 001 With conformal coating



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These specifications are subject to change without notification

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