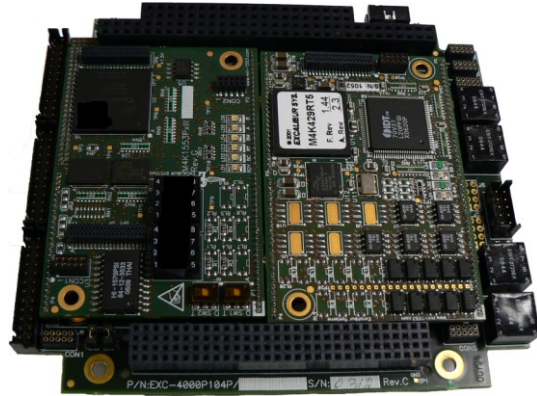# EXC-4000P104plus

The EXC-4000P104plus is part of the 4000 family of multiprotocol carrier boards. This PC/104-*Plus* interface board can support 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 (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
♦ PC/104-Plus board includes
  - a stackthrough PC/104 connector
♦ 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

♦ 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

♦ 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-4000P104P/*xx***
  Multi-protocol interface board for PC/104-*Plus* 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

These specifications are subject to change without notification

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