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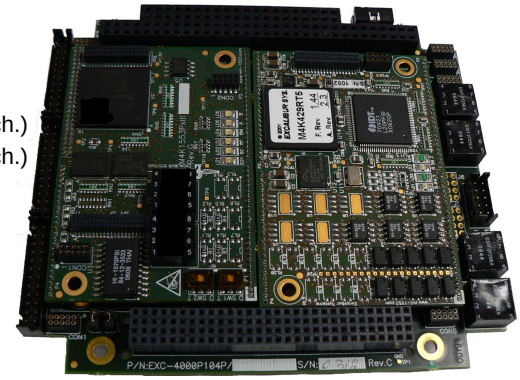
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Find the *Excalibur Systems EXC-4000P104P* at our website: *Click HERE*

EXC-4000P104plus

AVIONICS COMMUNICATION CARRIER BOARD

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 µs 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

CERTIFIED QMS SI ISO 9001: 2008

CERTIFIED AMS AS 9100

September 2014, Rev A-4

These specifications are subject to change without notification

311 Meacham Ave ♦ Elmont NY 11003
Tel [516] 327-000 / Fax: [516] 327-4645
e-mail: excalibur@mil-1553.com
website: www.mil-1553.com

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