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EXC-1553[c]PCI/MCH

AVIONICS COMMUNICATION BOARD

The EXC-1553PCI/MCH and EXC-1553cPCI/MCH are intelligent, MIL-STD-1553, PCI and Compact PCI interface boards for avionics test and simulation applications. Available in one, two, three or four channel versions, the EXC-1553[c]PCI/MCH provides a complete solution for developing and testing 1553 interfaces and performing system simulation of the MIL-STD-1553 bus. The boards support both standard variations of the MIL-STD-1553 protocol (A/B).

Each channel of the EXC-1553[c]PCI/MCH contains 32KB x 16 of dual-port RAM for Data blocks, Control registers, and Look-up tables. All Data blocks and Control registers are memory-mapped and may be accessed in real-time. Each of the independent dual-redundant 1553 channels may be programmed to operate in one of four modes of operation: Bus Controller, Remote Terminal, RT/Concurrent-Bus Monitor, and Bus Monitor. The EXC-1553[c]PCI/MCH comes complete with Windows software, and a C driver software library including source code, and one mating connector.



General Features

- Supports MIL-STD-1553A/B
- 32KB x 16 dual-port RAM (per channel)
- Operates as BC,RT BM or RT/Concurrent BM (each channel)
- Polling or Interrupt Driven
- Built-in test (BIT) capability (each channel)

Bus Controller

- Advanced message control features
- Major and minor frames
- Programmable Intermessage Gap
- Programmable Automatic Retry

Remote Terminal

- Single RT simulation
- Double buffering of data
- Message Illegalization
- 16-bit Time Tag
- Selectable Broadcast Mode

Bus Monitor

- Monitor all or selected messages
- 16-bit Time Tag

Physical Characteristics

- Dimensions for PCI: 157mm x 107mm
- Dimensions for cPCI: 160mm x 100mm
- Weight (PCI/MCH-2): 150g

Operation Environment

- Temperature: 0°–70°C standard temp.
-40° to +85°C extended temperature (optional)
- Humidity: 5%–90% noncondensing
- MTBF (PCI/MCH-2): 79,000 hours at 25°C, G_F, S217F

Host Interface

- [c]PCI compliance: Target 16 bit 5V only
- Memory space occupied: 512K
- Interrupts: INTA#
- Power (MCH-2): +5V ±5% @ 1.2A (50% duty cycle)

Software Support

- C Drivers with source code
- Merlin MCH software for Windows
- Additional software may be available on our website

Ordering Information

- **EXC-1553PCI/MCH-*x*** Multichannel MIL-STD-1553 interface board for PCI systems
- **EXC-1553cPCI/MCH-*x*** Multichannel MIL-STD-1553 interface board for Compact PCI systems

Note: "***x***" specifies the number of MIL-STD-1553 channels required (up to 4)

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

CERTIFIED QMS SI ISO 9001: 2000

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These specifications are subject to change without notification

CERTIFIED AMS AS 9100

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