

EXC-1553PCMCIA/Px

The EXC-1553PCMCIA/Px is a multifunction, intelligent, memory-mapped, MIL-STD-1553 interface card. It can be ordered with one or two MIL-STD-1553 channels and complies with the PCMCIA 2.1 standard, including Plug and Play. The card's small size and suitability for PCMCIA compatible notebook computers with Type II slots make it a complete solution for developing and testing 1553 interfaces and for performing system simulation of the MIL-STD-1553 bus, both in the lab and in the field.

The EXC-1553PCMCIA/PxS is a single function version of the card with a single RT and no error injection.



General Features

- ◆ Up to two independent MIL-STD-1553A/B channels
- ◆ PCMCIA Type II PC card
- ◆ 5V single power supply
- ◆ Real-time operation
- ◆ 32-bit Time tag
- ◆ Programmable Time tag resolution (RT & MON)
- ◆ Transformer Bus coupling
- ◆ Programmable Interrupts
- ◆ Time tag can be read in real-time
- ◆ Ruggedized cable connection

Channel Specifications

- ◆ 64K x 8 dual-port RAM
- ◆ Independent MIL-STD-1553 dual-redundant channels
- ◆ Operates as RT, BC/Concurrent-RT or Triggerable Bus Monitor
- ◆ Internal Concurrent Monitor (RT and BC/RT modes)
- ◆ Both 1553A and 1553B protocol capability
- ◆ Multiple-RT simulation (up to 32 RTs)
- ◆ Multibuffering of data (RT)
- ◆ Major/Minor frames (BC)
- ◆ Asynchronous frames (BC)
- ◆ Automatic retry (BC)
- ◆ Programmable broadcast mode
- ◆ Multi-mode triggerable Monitor
- ◆ Extensive interrupt features
- ◆ Service Request Processing
- ◆ Loopback mode (Bus A to Bus B) enables complete built-in test; plus cable testing
- ◆ Error injection capabilities:
 - Word Count
 - Bit Count
 - Incorrect sync
 - Incorrect RT address
 - Incorrect parity
 - Non-contiguous data
 - Manchester
- ◆ MIL-STD-1760 Option:
 - Checksum error detection
 - Checksum error injection
 - Header Words

Software Support

- ◆ C Drivers with source code
- ◆ MerlinPlus software for Windows
- ◆ *Exalt Plus*: Excalibur Analysis Laboratory Tools (optional)
- ◆ Additional software may be available on our website

Physical Characteristics

- ◆ Dimensions: 86mm x 54mm x 5mm (PCMCIA type II)
- ◆ Weight (/P2, incl. cables): 160g

Operating Environment

- ◆ Temperature: 0° - 70°C
-40° to +85°C ext. temp. (optional)
- ◆ Humidity: 5% - 90% noncondensing
- ◆ MTBF (/P2): 179,440 hours at 25°C, G_F, S217F

Host Interface

- ◆ PCMCIA compliance: PCMCIA release 2.1
- ◆ Memory space occupied: 264K Common Memory
4K Attribute memory
- ◆ Power (/P2): +5V ±5% @ 0.4A max.
(0% duty cycle/Bus Monitor)
@ 0.9A max. (75% duty cycle)

Ordering Information

- ◆ **EXC-1553PCMCIA/Px-R**
Multifunction, MIL-STD-1553 PCMCIA card
 - ◆ **EXC-1553PCMCIA/PxS-R**
Single function, MIL-STD-1553 PCMCIA card
 - ◆ **EXC-1553PCMCIA/PxM-R**
Monitor-only, MIL-STD-1553 PCMCIA card
- Note:** "x" specifies the number of MIL-STD-1553 channels required (1 or 2)
- ◆ Additional Options:
 - 1760 1760 protocol support
 - E Extended temperature module



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These specifications are subject to change without notification

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