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File Library
Mailing List
Products
Search
Request Info
Feedback
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EXC-1553PC/HC-V

The EXC1553PC/HCV is an intelligent MILSTD1553 interface for PC compatibles. This card can operate as either a Bus Controller or Remote Terminal (multiRT option available) or Bus Monitor. The 16K bytes of oncard dual port RAM used for storage of control parameters and data may be updated in real time. The card's small size (half size PC) and low cost make this product particularly attractive for portable test and simulation applications. The EXC1553PC/HC is supplied with C Drivers, including source code.

Specifications

General Specifications

- Supports 1553A/B, F-16, McAir
- Handles 4 µsec. Intermessage Gap (all modes)
- 16K x 8 Dual Port RAM
- Board Setup Modifiable in Real Time
- Programmable Interrupts
- Variable Amplitude Transceivers
- Direct or Transformer Bus Coupling
- Programmable Time Tag (RT and MON Modes)
- Error Injection (BC & RT Modes)

Bus Controller

- Programmable Intermessage Delay
- Programmable RT Response Time Out
- Programmable Frame Time
- Loop and Single-Shot Modes

Bus Monitor

- Three Storage Modes: Store All, Store Only, Store After

Remote Terminal

- Selectable Broadcast Mode
- Programmable Status Word
- Programmable RT Response Time
- Programmable Mode Code Subaddress
- Simulation of Multiple RTs (up to 32) with MRT option

Physical Characteristics

- Dimensions 173mm x 99mm
- Weight 250 grams

Operating Environment

- Temperature 0 - 45° C
- Humidity 5% - 90% Noncondensing
- MTBF (-V option) 67,100hrs at 25° C, G_F

Software Support

- C Drivers with source code MERLIN Menu Driven Software

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- Programmable Trigger Words & Masks

Host Interface

- PC Compliance AT, ISA, EISA Bus: 8 Bit Data Bus
- Memory Space Occupied 16K x 8
- Interrupts IRQ 2-15
- Power +5V ± 5% @ 1.2A
- +12V ± 5% @ 150mA
- -12V ± 5% @ 150mA

Ordering Information

- EXC-1553PC/HC-V 1553 Interface For PC Compatibles
- EXC-1553PC/HC-V-MRT Includes Multiple RT option

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