

# 1553 PCI CARD

## DESCRIPTION:

The 1553 PCI Card provides an intelligent interface between up to four (4) MIL-STD-1553 channels and a PCI slot in a PC compatible computer. Each channel is dual standby redundant and can operate as a Bus Controller (BC), Remote Terminal (RT), Bus Monitor (BM) or Remote Terminal/Bus Monitor (RT/M). This allows it to be used in developing, testing and simulating the MIL-STD-1553 bus functions from a personal computer. Each channel on the card has 128K words of 16 bit memory and uses the SuMMIT from United Technologies Microelectronics Center to manage the critical functions of the MIL-STD-1553 protocol. The PC has full access and control of the SuMMIT. The SuMMIT internal registers and the channel status/control register are mapped into upper memory on each channel. The memory on each of the channels is divided into two pages of 64K each for access by the SuMMIT. Each channel can be either transformer coupled or direct coupled to the data bus. Powerful and flexible interrupts are provided. Each channel provides a Trigger Output as a 665 ns active high pulse generated from the MSG\_INT signal from the SuMMIT. For Monitor operation, an option is provided for the SuMMIT to automatically switch pages when all the monitor blocks have been written. Software is included with the card.

**PART NUMBER:** 9128-x (where x is the number of channels)

## FEATURES:

- Easy to use
- Uses SuMMIT from UTMC
- Minimal host overhead
- Up to 4 channels per card
- 128K words memory per channel
- MIL-STD-1553 A, B, & Notice II
- Operates as BC, RT, BM or RT/M
- Flexible interrupts or polling

## SPECIFICATIONS:

- Card Size: 4.25" x 9.0"
- PCI Interface: 32 bits
- Memory Word Size: 16 bits
- Operating Temperature: 0° to 40° C
- Storage Temperature: -25° to +85° C
- Voltage: +5 V +/- 5% @ 0.9 Amps Maximum/channel
- Communication Protocol: MIL-STD-1553 A or B
- Data Bus Coupling: Transformer or Direct
- Data Bus: Dual Standby Redundant
- Data Bus Connector: DB25 Female
- Relative Humidity: 10 - 90% Noncondensing

## GENERAL INFORMATION:

Specializing in MIL-STD-1553 since 1979, Test Systems provides test equipment, training seminars and validation testing. Test equipment provides for testing and simulating 1553A/B terminals and systems. Training seminars on MIL-STD-1553 provide a comprehensive discussion of the standard and include hands-on lab sessions. Approved validation testing service tests remote terminals and components to the requirements of MIL-STD-1553.

For more information contact:

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