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Product Details: ABI-PCI-1
ABI-PCI

MIL-STD-1553 Programmable Interface to PCI system. Full Fuction. Single Channel.



Product Description

The ABI-PCI interface provides a flexible, full function, dual redundant MIL-STD-1553 interface to the PCI backplane. This Advanced Bus Interface (ABI) architecture provides concurrent and independent operation of a Bus Controller (BC), 31 Remote Terminals (RT), and dual function Bus Monitoring (BM). The ABI-PCI interface equips the PCI bus system with a complete 1553 interface, including 1553A and/or 1553B selections, programmable BC frame lists, BC scheduling capabilities, RT response tables, pointer driven transmit and receive buffers, Map Monitoring, 100% Independent Sequential Bus Monitoring and extensive programmable event interrupts.

BC simulation structures consist of linked lists of 1553 command messages: BC-to-RT, RT-to-BC, RT-to-RT, mode code, broadcast and time delay block transmissions. RT simulation is defined by a simple series of pointers to RT definition tables which subsequently point to control data buffers. Bus activity to be monitored is definable in both the Map and Sequential monitoring modes, providing user defined linked lists of data buffers and sequential, time stamped and double buffered 1553 activity respectively. Both monitoring modes perform broad error monitoring, and provide a comprehensive error table that can be read at any time by the host processor.

Hardware Overview
The ABI interface is based upon an advanced high speed DSP, programmable logic and dual port RAM to deliver a highly reliable hardware platform that is feature rich and user friendly. Through the 128K bytes of dual port RAM per channel, the host processor has access to set up, monitor, and change the 1553 interface data structures at any time. Link-list memory architecture allows the user to structure interface memory usage for the maximum in flexibility and usefulness.

Software Support Overview
SBS distributed software includes host processor device drivers to the dual port control and data structures, as well as, an application layer to these structures. Low level drivers and C libraries with source code are provided with the interface, at no cost.

Warranty

Two years

Order Info

ABI-PCI-1: Single Channel 1553 to PCI Interface
ABI-PCI-2: Dual Channel 1553 to PCI Interface
ABI-PCI1773-1: Single Channel 1773 to PCI Interface

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IRIG: IRIG B Time Receiver (Add to end of part number)

PDF Data Sheet

PDF Data Sheet

Sales Phone Number

(800) 727-1553

Related Product List

ABI-PCI-2, ASF-PCI-1/IRIG, ASF-PCI-2/IRIG

Specifications

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