

# MILITARY & DEFENSE

NTDS SERIAL D/E PCI



## NTDS SERIAL D/E PCI

PCI NTDS Serial Type D and E

The PCI NTDS Serial Type D and E interface provides a communications bridge between commercial computers with PCI slots, and military computers and peripherals using MIL-STD-1397C Type D for their communications with other devices.

### PRODUCT OVERVIEW

- Fully MIL-STD-1397C Type D or E compliant
- Full-duplex 32-bit NTDS transfers
- Interrupt, PIO & DMA operation
- Independent NTDS sink and source channels
- Field Programmable Gate Array (FPGA) technology
- Separate word counters and time-outs for command words and data words on inputs and outputs
- Internal loopback test without disconnecting NTDS cables
- Software-enabled SIF (for NTDS type E)
- Control frame programmability for MIL-STD-1397
- Time stamps can be synchronized across multiple interfaces
- Supports receipt of multiple forced command words
- Software compatible with serial PMC and cPCI boards
- PCI master and slave operation

## GENERAL PRODUCT FEATURES

### Input Mode Features

- Separate or combined data and command word buffers
- Input command words, stop on data word
- Input data words, stop on command word
- Single word or burst mode (NTDS type E)
- Passive tap mode

### Output Mode Features

- Concurrent data and command buffer operation
- Single word or burst mode (NTDS type E)

### Time-out Mode Features

- Time-out values in 10µs or 1ms increments
- Time-out between words and/or total transfer times
- Start time-out at beginning of operation or upon transfer of the first word

### Software Drivers Available\*

- Choice of driver included with board purchase: Windows® 2000/XP,

\* VxWorks®, Solaris™, Linux®, LynxOS®, HP-UX

Contact factory for new OS support



PCI NTDS Serial Type D



PCI NTDS Serial Type E

## OPTIONS AND ACCESSORIES

- Adapter Modules
- Cable Interface Modules (CIM)
- Cable Assemblies
- Tap Accessories

## TECHNICAL SPECIFICATIONS

NTDS Interface	MIL-STD-1397C Type D or E
PCIBus Interface	PCI 2.2 Compliant 32-Bit, 33/66 MHz, Universal Card (3.3V or 5V I/O signaling)
Input Buffer	64K x 32-bit FIFO
NTDS I/O Connector	Type D: 2 coaxial connectors (Amphenol# 31-10-75) Type E: 2 tri-axial connectors (Trompeter# CBBJR79T L)
Form Factor	6.875" x 4.2" (Standard PCI Short Card)
Weight	4.8 oz – Type D 4.8 oz – Type E
Power Consumption	Average +5V current draw: 0.85A Average +VI/O current draw: 5mA Average Power Dissipated: 2.89W
Relative Humidity	0% to 90% (non-condensing)
Operating Temperature	0°C to +55°C