

Sabtech Industries SW-02103-00 / 40-00133-01

Swift NTDS A/B/C/H 120-Pin MIL-STD-1397C PCI

Bus Module



Limited Availability
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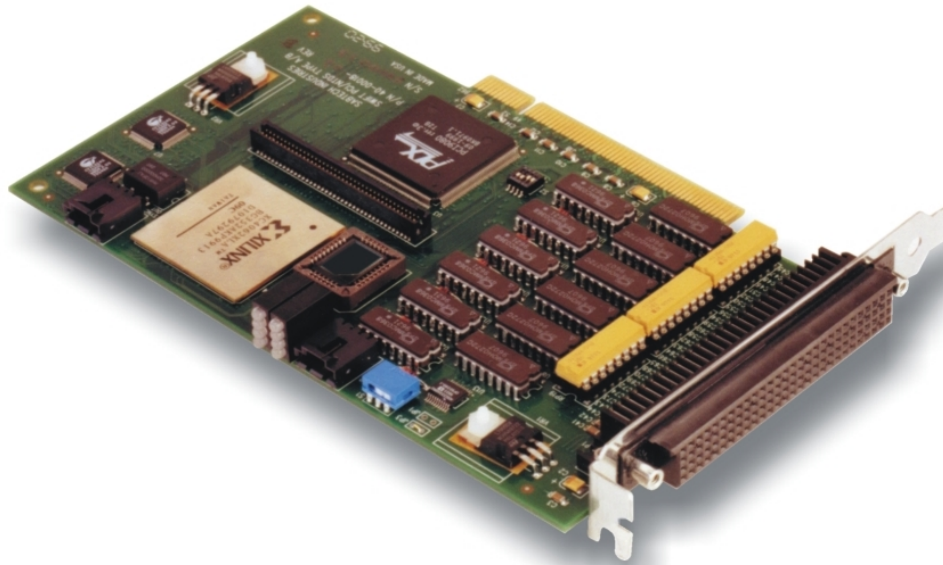
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SWIFT NTDS A/B PCI MODULE

The Swift NTDS AB PCI module is part of the family of PCI NTDS interfaces from Sabtech. It installs in a standard 5V signaling PCI slot to provide a full duplex interface for MIL-STD-1397C Type A and B channels. The Swift is easy to program and offers a variety of input and output modes to support any NTDS protocol. In addition to conventional input and output operations, the Swift has a built-in passive tap mode that provides powerful interface monitoring and data capturing capability. A software enabled embedded time-stamp generator tags input words with 125 ns resolution. The time-stamp clock can be synchronized between multiple boards by using a small interconnect cable, and can be driven by an external clock source.

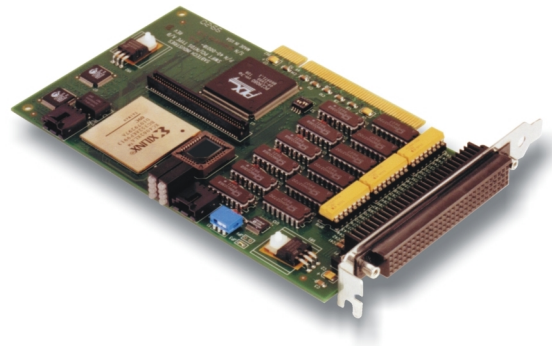
Reliability and flexibility are designed into the Swift. An internal loop-back path allows the Swift to be tested without disconnecting cables. Field upgrades can be done easily by running a simple utility to update the onboard Field Programmable Gate Array (FPGA).

The interface comes standard with a Windows NT device driver, an excellent documentation package, and sample C language code that can be freely used in application software. Optional adapter modules are available to simplify connection to many commonly used military devices.

A powerful feature set combined with the high performance PCI bus allow the Swift to achieve superior levels of NTDS performance in COTS systems. For the most compact, powerful, and reliable parallel NTDS interface available today, choose the Swift NTDS AB PCI module from Sabtech.

Key Features

- MIL-STD-1397C Type A and B
- Full-duplex 8, 16, or 32-bit NTDS transfers
- Interrupt, PIO & DMA operation
- Independent NTDS input and output channels
- Field Programmable Gate Array (FPGA) technology
- Separate word counters and time-outs for EI/EF words and data words on inputs and outputs
- PCI 2.1 compliant (supports Plug & Play)
- PCI master and slave operation
- Internal loop-back test without disconnecting NTDS cables
- Software enabled time-stamp on input words with 125 ns resolution
- Supports receipt of multiple forced EFs



Input Mode Options

- Separate or combined data and command word buffers
- Input command words, stop on data word
- Input data words, stop on command word
- Passive tap mode

Output Mode Options

- Concurrent data and command buffer operation

Time-out Options

- Time-out values in 10 μ s or 1 ms 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 Support

- Windows NT (device driver comes standard)
- Vx Works *
- Solaris *
- Linux *

* Check with factory for availability

PCI Board Level Products (MIL-STD 1397C)

Specifications	
NTDS Interface:	MIL-STD-1397C Type A & B
PCI Bus Interface:	PCI 2.1 Compliant (5V I/O, 32 Bit, 33 MHz)
Input Buffer:	4K x 32-Bit FIFO (standard) 64K x 32-Bit FIFO (optional)
NTDS I/O Connector:	112 Pin Receptacle (Berg 50295-5112E)
Form Factor:	6.875" x 4.2" (Standard PCI Short Card)
Weight:	5.6 oz
Relative Humidity:	0% to 90% (non-condensing)
Operating Temperature:	0°C to +55°C
Power Consumption:	Average 5V current draw: TBD Peak 5V current draw: TBD Average 3.3V current draw: TBD Peak 3.3V current draw: TBD Average +12V current draw: TBD Peak +12V current draw: TBD Average -12V current draw: TBD Peak -12V current draw: TBD Average V(I/O) power: TBD Peak V(I/O) power: TBD Average Power dissipated: TBD
Ordering Information	
Model #	Product Description
Swift NTDS AB PCI	
SW-01101-00	Swift NTDS AB PCI Module w/4K FIFO
SW-01102-00	Swift NTDS AB PCI Module w/64K FIFO
	<i>Specifications subject to change without notice(E&OE)</i>

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