

# Swift CompactPCI

## SWIFT-PAK™ NTDS ABCH cPCI MODULES

### KEY FEATURES

- MIL-STD-1397C Type A, B, C, and H compliant
- Full-duplex 8, 16, or 32-bit NTDS transfers
- Single or Dual NTDS I/O channels
- 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 master and slave operation
- Short circuit protected, tri-state drivers
- Internal loop-back test without disconnecting NTDS cables
- Software enabled time-stamp on input words with 125 ns resolution
- Timestamps can be synchronized across multiple interfaces
- Supports receipt of multiple forced EFs

#### 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
- Passive tap mode

#### Output Mode Features

- Concurrent data and command buffer operation

#### Time-out Features

- Time-out values in 10  $\mu$ 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 Drivers \*

Windows NT · Vx Works · Solaris · Linux & RT Linux · HP-UX

\*Choice of driver included with board purchase. Check with factory for new OS support



SWIFT-PAK™ FOR cPCI  
Parallel in 3U & 6U

SPECIFICATIONS	
<b>NTDS Interface:</b>	MIL-STD-1397C Type A, B, C, & H PCI
<b>Bus Interface:</b>	PCI 2.1 Compliant (3.3 or 5V I/O, 32 Bit, 33 MHz)
<b>Input Buffer:</b>	4K x 32-Bit FIFO (standard) 64K x 32-Bit FIFO (optional)
<b>NTDS I/O Connector:</b>	120 Pin Docking Connector (Molex 52755-1200)
<b>Relative Humidity:</b>	0% to 90% (non-condensing)
<b>Operating Temperature:</b>	0°C to +55°C
ORDERING INFORMATION	
MODEL #	PRODUCT DESCRIPTION
SC-01101-00	Swift-PAK™ NTDS ABCH 6U cPCI Module, 4K FIFO**, Single Ch
SC-01101-01	Swift-PAK™ NTDS ABCH 6U cPCI Module, 4K FIFO**, Dual Ch
SC-01103-00	Swift-PAK™ NTDS ABCH 3U cPCI Module, 4K FIFO**, Single Ch
	** Also available with 64K FIFO