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Data Sheet

August 15, 2026

IXI TECHNOLOGY / SABTECH INDUSTRIES

IXI Technology / Sabtech Industries 40-00037-01 Swift PCI NTDS Serial Type E Interface Module

IXI Technology / Sabtech Industries Embedded Test Systems. Channels: ** Independent NTDS Sink and Source (simultaneous, Resolution: ** 125 ns per input word.

**MODEL****IXI Technology /
Sabtech Industries
40-00037-01****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****40-00037-01****LISTING**<https://aumictechlabs.com/products/40-00037-01-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The IXI Technology / Sabtech Industries 40-00037-01 Swift PCI NTDS Serial Type E Interface Module is a MIL-STD-1397C Type D/E compliant PCI interface card engineered for full-duplex 32-bit NTDS data transfers between commercial and military systems. Independent NTDS Sink and Source channels support simultaneous bidirectional communication via Interrupt, Programmed I/O, and Direct Memory Access operation modes. FPGA-based architecture enables in-field reprogramming and extends component lifecycle. Technical Specifications Model: 40-00037-01 Bus Interface: PCI Protocol Compliance: MIL-STD-1397C Type D or E Data Transfer: Full-duplex 32-bit NTDS Operation Modes: Interrupt, Programmed I/O (PIO), Direct Memory Access (DMA) Channels: Independent NTDS Sink and Source (simultaneous full-duplex) Architecture: Field Programmable Gate Array (FPGA) Time Stamp Resolution: 125 ns per input word Time-out

Increments: 10 μ s or 1 ms selectable Key Features Separate or combined data and command word input buffers with stopping logic Concurrent data and command output buffer operation Single-word and burst-mode transmission for NTDS Type E Passive tap mode for non-intrusive monitoring and data capture Software-selectable time stamping across active and passive communications Time stamp synchronization across multiple interfaces Independent word counters and time-outs for command/information words and data words Configurable time-out start (operation initiation or first-word transfer) Full implementation of MIL-STD-1397C System Integrity Features (SIF) Typical Applications Naval combat systems and defense network integration Military serial data acquisition and command distribution Passive monitoring of NTDS communication networks Real-time multi-interface synchronization in shipboard environments Compatibility & Integration Software compatibility with other Swift family boards (PMC and cPCI versions) supports system migration and mixed-board deployments without firmware redesign.

4000037 Characteristics / Specifications

PARAMETER	VALUE
Model	40-00037-01
Instrument Type	PCI NTDS Serial TypeEinterface
Standard	MIL-STD-1397C TypeDorETransfers: full-duplex 32-bit NTDS
Pci	PCI 2.2, 32-bit, 33/66 MHz, universal 3.3 V or 5 V I/O
Fifo	64K x 32-bit FIFO (64K SKU); 4K FIFO on SW-04101-00
TypeEConnectors	2 tri-axial Trompeter CBBJR79TLForm Factor: 6.875 inch x 4.2 inch standard PCI short card
Mass	4.8 oz TypeEFive Volt Current: 0.85 A average
Vio Current	5 mA average
Power Dissipated	2.89 W average
Operating Temperature	0 C to plus 55 C
Humidity	0 to 90 percent non-condensing
Time Stamp	125 ns resolution on input words, software selectable
Sif	software-enabled System Integrity Features for TypeELoopback: internal loopback without disconnecting NTDS cables
Modes	interrupt, PIO, and DMA; PCI master and slave
Channels	independent NTDS sink and source
Tap	passive tap as well as normal NTDS I/O
Related Four K	SW-04101-00 TypeEPCI 4K FIFO
Related Sixty Four K	SW-04102-00 TypeEPCI 64K FIFO
Os Drivers	Windows, VxWorks, Solaris, Linux, LynxOS, HP-UX
Manufacturer	IXI Technology / Sabtech Industries
Literature	IXI Swift PCI NTDS Serial D/E product specifications
Family	Swift PCI/PMC/cPCI NTDS Serial
System Role	NTDS TypeEPCI interface
Application Class	Navy tactical computer and peripheral I/O

PARAMETER	VALUE
Fpga	field-updatable FPGA logic

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to plus 55 C
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Family	Swift PCI/PMC/cPCI NTDS Serial
System Role	NTDS TypeEPCI interface
Application Class	Navy tactical computer and peripheral I/O
Fpga	field-updatable FPGA logic Notes From IXI Swift PCI NTDS Serial D/E specifications (PCI 2.2 33/66 MHz, 6.875 × 4.2 inch, 4.8 oz, 0.85 A / 2.89 W, 0 to 55 C, 125 ns stamp, TypeEtriaux). Whether 40-00037-01 is the 4K or 64K FIFO stuffing is on the Sabtech configuration label.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Technical Specifications	
PARAMETER	VALUE
Model	40-00037-01
Instrument Type	PCI NTDS Serial Type E interface
Standard	MIL-STD-1397C Type D or E
Transfers	full-duplex 32-bit NTDS
Pci	PCI 2.2, 32-bit, 33/66 MHz, universal 3.3 V or 5 V I/O
Fifo	64K x 32-bit FIFO (64K SKU); 4K FIFO on SW-04101-00
Type E Connectors	2 tri-axial Trompeter CBBJR79T L
Form Factor	6.875 inch x 4.2 inch standard PCI short card
Mass	4.8 oz Type E
Five Volt Current	0.85 A average
Vio Current	5 mA average
Power Dissipated	2.89 W average
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Modes	interrupt, PIO, and DMA; PCI master and slave
Channels	independent NTDS sink and source
Tap	passive tap as well as normal NTDS I/O
Related Four K	SW-04101-00 Type E PCI 4K FIFO
Related Sixty Four K	SW-04102-00 Type E PCI 64K FIFO
Os Drivers	Windows, VxWorks, Solaris, Linux, LynxOS, HP-UX
Manufacturer	IXI Technology / Sabtech Industries
Literature	IXI Swift PCI NTDS Serial D/E product specifications
Family	Swift PCI/PMC/cPCI NTDS Serial

PARAMETER	VALUE
System Role	NTDS Type E PCI interface
Application Class	Navy tactical computer and peripheral I/O
Fpga	field-updatable FPGA logic

Specifications

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Fpga	field-updatable FPGA logic

Notes

From IXI Swift PCI NTDS Serial D/E specifications (PCI 2.2 33/66 MHz, 6.875 x 4.2 inch, 4.8 oz, 0.85 A / 2.89 W, 0 to 55 C, 125 ns stamp, TypeEtriaux). Whether 40-00037-01 is the 4K or 64K FIFO stuffing is on the Sabtech configuration label.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.