

Swift-PAK™ VME NTDS Serial Modules



Swift-PAK™ VME NTDS
Serial Module

For those applications where VMEbus slots are at a premium, the VME Swift-PAK's™ are the perfect solution to increase performance while reducing slot space. Utilizing our state-of-art Swift™ PMC technology in a VMEbus environment, the VME Swift-PAK™ allows users the flexibility to pack up to two (2) complete NTDS I/O channels in a single VMEbus slot. These channels can be any combination of NTDS Parallel or Serial I/O channels. The VME Swift-PAK™ includes a powerful set of standard features and support for most popular operating systems, making it ideally suited for normal NTDS I/O functions as well as passive tap applications.

Features

- MIL-STD-1397C Type D or E compliant
- Full-duplex 32-bit NTDS transfers
- Single or Dual NTDS I/O channels
- Interrupt, PIO & DMA operation
- Independent NTDS sink and source channels
- Field Programmable Gate Array (FPGA) technology
- Separate word counters and time-outs for command and data words on inputs and outputs
- VME A32/A24/A16 master and slave addressing
- Internal loop-back test without disconnecting NTDS cables
- Software selectable SIF with individual test enables
- Software enabled time-stamp on input words with 125ns resolution
- Timestamps can be synchronized across multiple interfaces
- Supports receipt of multiple forced Command words
- Control Frame programmability for MIL-STD-1397B compatibility

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

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
- VxWorks®

Options & Accessories

- Cable Assemblies
- Tap Accessories

Specifications

NTDS Interface:

- MIL-STD-1397C Type D or E

VMEbus Interface:

- VME Revision C.1 (IEEE P1014)

Input Buffer:

- 4K x 32-bit FIFO (standard), 64K x 32-bit FIFO (optional)

NTDS I/O Connector:

- Type D: 2 coaxial connector (Amphenol# 31-10-75)
- Type E: 2 tri-axial connector (trompeter# BJ157)

Form Factor:

- Eurocard 6U VME

Weight:

- 16 .2 oz

Power Consumption:

- Configuration dependent contact factory for power consumption information

Relative Humidity:

- 0% to 90% (non-condensing)

Operation Temperature:

- 0°C to +55°C

Ordering Information

Model Number	Product / Description
SV-03101-00	VME Swift-PAK™ NTDS D with 4K FIFO, 6U, Single Channel
SV-03102-00	VME Swift-PAK™ NTDS D with 64K FIFO, 6U, Single Channel
SV-03101-01	VME Swift-PAK™ NTDS D with 4K FIFO, 6U, Dual Channel
SV-03102-01	VME Swift-PAK™ NTDS D with 64K FIFO, 6U, Dual Channel
SV-04101-00	VME Swift-PAK™ NTDS E with 4K FIFO, 6U, Single Channel
SV-04102-00	VME Swift-PAK™ NTDS E with 64K FIFO, 6U, Single Channel
SV-04101-01	VME Swift-PAK™ NTDS E with 4K FIFO, 6U, Dual Channel
SV-04102-01	VME Swift-PAK™ NTDS E with 64K FIFO, 6U, Dual Channel

Specifications subject to change without notice (E & OE)

* Contact factory for new OS support