

Swift-PAK™ VME NTDS Parallel Modules



Swift-PAK™ VME NTDS
Parallel 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 A, B, C, and H compliant
- Full-duplex 8, 16, or 32-bit NTDS transfers
- Single or Dual NTDS I/O channels
- Computer, Intercomputer, Peripheral, or Interperipheral modes
- 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
- VME A32/A24/A16 master and slave addressing
- 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 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

* Contact factory for new OS support

Options & Accessories

- Adapter Modules
- Cable Assemblies
- Tap Accessories

Specifications

NTDS Interface:

- MIL-STD-1397C Type A,B,C & H

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:

- 120 Pin Docking Connector (Molex 52755-1200)

Form Factor:

- Eurocard 6U VME

Weight:

- 15.2 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

Product / Description	Model Number
VME Swift-PAK™ NTDS ABCH with 4K FIFO, 6U, Single Channel	SV-01101-00
VME Swift-PAK™ NTDS ABCH with 64K FIFO, 6U, Single Channel	SV-01102-00
VME Swift-PAK™ NTDS ABCH with 4K FIFO, 6U, Dual Channel	SV-01101-01
VME Swift-PAK™ NTDS ABCH with 64K FIFO, 6U, Dual Channel	SV-01102-01

For additional configuration/part numbers visit our web site at www.sabtech.com