SABTECH INDUSTRIES
TACTICAL DATA LINK SPECIALISTS

Sparrow™ PMC Serial ATDS Conduction Cooled

The most compact, powerful and reliable serial ATDS interface available

Sparrow achieves superior levels of serial ATDS performance in COTS systems

The Conduction Cooled Sparrow PMC Serial ATDS module installs in an industry standard PCI Mezzanine Card (PMC) slot to provide an interface to a Tactical Digital Information link (TADIL) A serial channel (MIL-STD-188-203-1A, Appendix D2). The Conduction Cooled Sparrow is easy to program and offers a variety of input and output modes to support all ATDS protocols. A software-enabled embedded time stamp generator tags input words with 125ns 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.

- Easy to Program
- Reliable and Flexible
- Multiple Input and Output Modes
- Powerful Feature Set

Reliability and flexibility are designed into the Conduction Cooled Sparrow. An internal loopback path allows the Conduction Cooled Sparrow to be tested without disconnecting cables, Field upgrades are easily done by running a simple utility to update the onboard Field Programmable Gate Array (FPGA).

The interface comes standard with a driver for any one of the supported operating systems, an excellent documentation package and sample C language code that can be freely used in application software.

Sparrow PMC Serial ATDS, Conduction Cooled

A powerful feature set combined with the high performance PCI bus and industry standard PMC form factor allow the Conduction Cooled Sparrow to achieve superior levels of ATDS performance in COTS systems. For the most compact, powerful, and reliable serial ATDS interface available today, choose the Conduction Cooled Sparrow PMC Serial ATDS module from Sabtech.

Sparrow PMC Serial ATDS, Conduction Cooled Features

- Fully MIL-STD-188-203-1A, Appendix D2 compliant
- Transceiver short circuit protection
- DTS or TDS operation
- Frame interval of 13.33ms or 22.00ms
- Full picket addressing and Sidetone support
- Data recirculation (fault) testing
- KG-40 reset signal
- DTS/TDS mode LED
- Net control LED
- User LED
- Interrupt, PIO & DMA operation
- Field Programmable Gate Array (FPGA) technology
- PCI 2.2 compliant
- PCI master and slave operation
- Internal loop-back test without disconnecting ATDS cables
- Software enabled time stamp on input words with 125ns resolution
- Passive tap mode
- Fully software configurable (no programming switches or jumpers)

Time-Out 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 first word

Software Support*

- Choice of driver included with board purchase: Windows® 2000/XP, Solaris™, Linux®, VxWorks®

**Contact factory for new OS support*

Options and Accessories:

- Cable Assemblies
- Conduction Cooled Carrier – VME 64x to Serial ATDS Rear I/O

Visit the Accessories section of our website for more information on these products.

Sparrow PMC Serial ATDS Conduction Cooled Technical Specs

ATDS Interface	MIL-STD-188-203-1A, AAppendix D2
PCI bBus iInterface	PCI 2.2 Compliant 32 Bit, 33MHz, uUniversal cCard (3.3V or 5V I/O sSignaling)
Input Buffer	64K x 32 Bit FIFO
ATDS I/O Connector	Rear I/O through PN4
Form Factor	Single Wide, Non-Extended PMC (Per IEEE P1386.1, Draft 2.0)
Weight	3.0 oz.
Power Consumption	Average +5V current draw: 0.56A Average -12V current draw: 50mA Average +VI/O current draw: 5mA Average Power dissipated: 3.43W
Relative Humidity	5% to 95% (non-condensing)
Operating Temperature	-40°C to +65°C