



Sparrow™ PMC Serial ATDS Conduction Cooled

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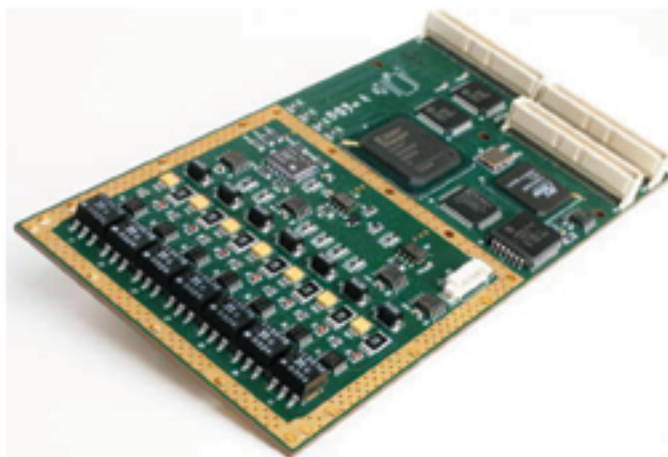
Sparrow™ PMC Serial ATDS

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 enable 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.

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 can be done easily 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.

A powerful feature set combined with the high performance PCIbus and industry standard PMC form factor allow the Conduction Cooled Sparrow™ to achieve superior levels of serial 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.



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 loopback 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)



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Time-out Options

- Time-out values in 10µs or 1ms increments
- Time-out between words and/or total transfer times
- Start timeout 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.

Specifications

ATDS Interface	MIL-STD-188-203-1A, Appendix D2
PCI Bus Interface	PCI 2.2 Compliant 32-Bit, 33MHz, Universal Card (3.3V or 5V I/O Signaling)
Input Buffer	16K 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 +V/I/O current draw: 5mA Average Power dissipated: 3.43W
Relative Humidity	5% to 95% (non-condensing)
Operating Temperature	-40°C to +65°C

Ordering Information

Product/Description	Part Number
Sparrow™ PMC Serial ATDS Board Conduction Cooled w/64K FIFO	SP-12102-00-CC

Specifications subject to change without notice (E&OE)