

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

SABTECH INDUSTRIES
TACTICAL DATA LINK SPECIALISTS



Sparrow™ PMC ATDS Serial Board

The most compact, powerful and reliable serial ATDS interface available today

Sparrow achieves superior levels of serial ATDS performance in COTS systems

The Sparrow PMC ATDS Serial Board 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 Sparrow is easy to program and offers a variety of input and output modes to support all ATDS protocols. In addition to conventional input and output operations, the Sparrow has a built-in passive tap mode that provides interface monitoring and data capturing capability. 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

Design Features

Reliability and flexibility are designed into the Sparrow. An internal loop-back path allows the 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).



Sparrow™ PMC ATDS Serial Board

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

Product Overview

- 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

General Product Features

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

Sparrow PMC ATDS Serial Board Technical Specs

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	64K x 32-Bit FIFO
ATDS I/O Connector	25-pin Micro D (Molex 83614-9012)
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 90% (non-condensing)
Operating Temperature	0°C to +55°C

© 2008 Sabtech Industries Document

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP