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.

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.

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**

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

**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

<table>
<thead>
<tr>
<th><strong>ATDS Interface</strong></th>
<th>MIL-STD-188-203-1A, Appendix D2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PCI Bus Interface</strong></td>
<td>PCI 2.2 Compliant 32 Bit, 33MHz, Universal Card (3.3V or 5V I/O signaling)</td>
</tr>
<tr>
<td><strong>Input Buffer</strong></td>
<td>64K x 32 Bit FIFO</td>
</tr>
<tr>
<td><strong>ATDS I/O Connector</strong></td>
<td>Rear I/O through PN4</td>
</tr>
<tr>
<td><strong>Form Factor</strong></td>
<td>Single Wide, Non-Extended PMC (Per IEEE P1386.1, Draft 2.0)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>3.0 oz.</td>
</tr>
</tbody>
</table>
| **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 |