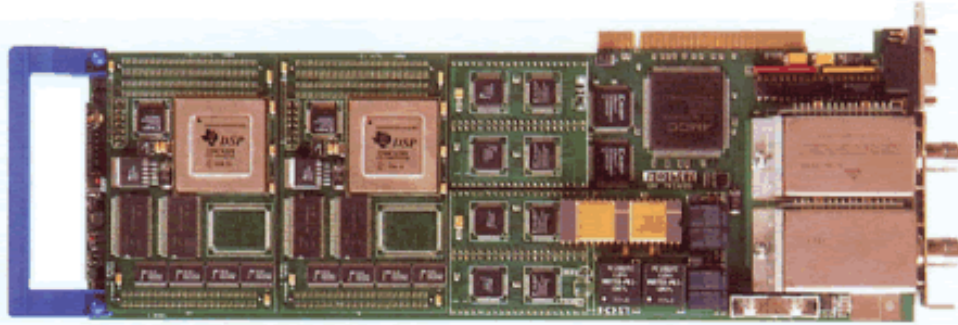


→ **ATT
PCI/3910**

STANAG 3838/3910
Test and Simulation Card

The ATT PCI/3910 supports the full STANAG-3910 specifications on a single full size PCI card. It is one of a range of products which has been designed to be fully compatible with the Systran range of Mil-Std-1553 / STANAG 3838 interfaces as well as other protocol interfaces available from ATT. These products together with software running under Microsoft Windows have been developed for the ATT-DAS general purpose data acquisition and monitoring system.

The software libraries available for the other Systran Mil-Std-1553 products are compatible with the low speed libraries for the ATT PCI/3910 card.



The user has the option develop software using the libraries, or to use the menu software or a combination of both. Data can be time correlated with any of the other interfaces available when connected into the host system.

→ **Bus Controller Mode**

The ATT PCI/3910 has a powerful bus controller with an extensive bus instruction set. Bus instructions include all the STANAG 3838/3910 commands with Jump to Sublist, Jump on Status Exception, Jump on Protocol Error, Return, Unconditional Jump, Reset Stack, Wait, Delay, Pause, Halt, etc. An interrupt can be enabled allowing the host

→ **Remote Terminal Mode**

The ATT PIM PCI/3910 supports the emulation of 32 Remote Terminals. Interrupts can be generated for individual remote terminals and sub addresses or the new data bit can be interrogated by the host computer to track events. The host computer can write to memory buffers to change data while the board is responding to Mil-Std-1553 transactions.

The user has full control over the designation of the high speed sub address.

→ **Acquisition Mode**

In Acquisition mode, each Bus Monitor channel can filter and time tag the data to 0 1uS accuracy. Acquired data is placed in a buffer for subsequent reading by the host computer and recording to disk. An interrupt can be generated when the data is captured. Acquisition is concurrent with other modes of operation.

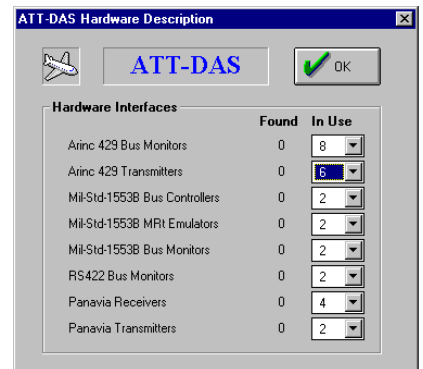
→ **Monitor Mode**

Each STANAG 3910 interface supports a full chronological monitor which can capture all bus traffic or specified transactions. Received words which fulfil the monitor conditions are time tagged to 0 1uS accuracy and placed into a dual port RAM buffer for the host computer to analyse or transfer to another storage medium. Interrupts can be used to notify the host system of specific events. All other modes can operate concurrently with the monitor mode.

→ **Software**

For a turn-key solution to many applications, a menu driven software package running under Microsoft Windows is available. This package supports all the Protocol Interface Module types including ARINC 419/429, MIL-STD-1553, RS-422, RS485, RS232, Panavia and Discretes.

Data can be monitored in real time, and stored to hard disk for later analysis, it can be viewed in raw format or user defined engineering units.



For users wishing to write their own software, an Application Program Interface (API) complete with source code is available. Written in Microsoft C, this code can be compiled into a library suitable for both Windows and DOS based applications. It can also be compiled into a self contained Windows DLL.



Features		↓
<ul style="list-style-type: none"> ➤ Powerful on-board Texas C6201 32 bit processor ➤ Full STANAG 3910 interface card ➤ Concurrent BC, MRT and BM support ➤ Error injection and detection ➤ One dual redundant bus on a full size PCI card ➤ Up to 16M Words of high speed memory on board ➤ 64K words of low speed memory on board ➤ On card filtering and triggering of received data ➤ Software libraries for Windows applications ➤ Menu software for the Microsoft Windows environment ➤ Suitable for PCI based systems 		

Specification		↓
<ul style="list-style-type: none"> ➤ PCI Local Bus Spec., Rev 2.1 / PMC IEEE P1386.1 Dft 2.0 ➤ Power: +5V @ 6A, +12V @ 0.05A, -12V @ 0.23A ➤ Power: +3.3V @ 6A, +5V @ 4.2A, +12V @ 0.05A, -12V @ 0.23A (with 3.3V on PCI connection) ➤ * New Texas C6201 will reduce power requirements ➤ Operating Temperature 0 to 50 degrees C ➤ Storage Temperature -20 to 85 degrees C ➤ Operating Humidity 5% - 90% (non condensing) ➤ Memory: 64K x 16 RAM for low speed bus ➤ Memory: 16M x 16 RAM for high speed bus ➤ Dimensions: 106.68 x 312.00 mm 		

