- **Type II PC Card**
- **Based on 16 bit PCMCIA Architecture**
- **DDC Controller**
- **Programmable as Bus Controller or Remote Terminal or Monitor Terminal**
- **64K words of Static RAM**

- **Single dual redundant MIL-STD-1553B channel**
- **Direct or Transformer Coupled**
- **Flexible RT Data Buffering with Circular Buffer**
- **16 Bit Time Tag with 2µSec Resolution**
- **Windows XP, Linux and RT-Linux driver support**

OVERVIEW

The AT-PCC-1553 card provides a flexible, single function, dual redundant MIL-STD-1553B interface to the PC card socket. The card can be used with a laptop, notebook PC, a desktop PC, or any other device having PC Card interface. The AT-PCC-1553 is based on Type II PC Card architecture and offers Simulation, Monitoring functions. The card is integrated with powerful software that reduces development time. All databus functionality is supported by our advanced API (Application Programming Interface).

HARDWARE

The AT-PCC-1553 card comes with a single dual redundant MIL-STD-1553B channel. Configured with a controller from DDC, it provides 64K of Static RAM. Built around the 16-bit PC Card architecture, the card provides a rugged interface to mobile computers and devices. It operates at 5V thus saving battery life of the host PC. The card single function architecture can emulates as a Bus Controller or 31 Remote Terminals or Monitor Terminal modes.

Transformer and Direct Coupling

Suitable cables are to be used for either of the configurations. It is configured to work in the transformer-coupled mode by default.

SOFTWARE

The AT-PCC-1553 software includes:
> Bus Monitor
> Drivers & APIs

Bus Monitor

- Record and replay of data
- Replay with rate selection
- Message identifier
- Multi console at a time
- Bus ideal time analyzer
- Filtering option up to sub address
- Message sampling option

Drivers & APIs

The AT-PCC-1553 card comes with a powerful set of library functions to access the entire MIL-STD-1553B functionality. The drivers are designed in a modular fashion consisting of component functions and application functions. The user's test program can be developed with few calls to the driver by using the set of application functions provided. Driver and high-level API libraries for Windows XP, Linux and RT-Linux. Sample programs for BC, RT, MT modes are included.

AT-PCC-1553

MIL-STD-1553B PC CARD

PRODUCT SPECIFICATIONS

MIL-STD-1553B Interface

- Type II PC Card
- 16-bit PCMCIA architecture
- Programmable as Bus Controller or 31 Remote Terminals or Monitor Terminal
- 64K words internal memory
- Single dual redundant MIL-STD-1553B channel
- Message formats BC-RT, RT-BC, RT-RT, Broadcast, System Control
- Direct or Transformer coupled - Optional

Bus Controller

- 64K words of SRAM per channel for DDC controller
- Automatic retries on alternate Bus
- Inter Message Gap from 8µs to 65ms
- Frame auto repeat up to 5s
- Programmable response timeout up to 130µs

Remote Terminal

- Programmable command illegalization
- Programmable Single Message or double buffering or circular buffering
- BUSY Bit programmable by sub-address
- Alphanumeric message ID

Monitor Terminal

- Word monitor
- Selective message monitor
- Dynamic data update
- Message Periodicity
- Bus error status
- Busload
- Unique Message identifier
- Record and Replay option
- Message identifier

Software Support

- Driver and high-level API libraries for Windows XP, Linux and RT-Linux
- Sample applications provided

Physical

- Type II PC card
- Card dimensions - 54.0 x 85.6 x 5 mm

Environmental

- Operating temperature: 0° C to +50° C
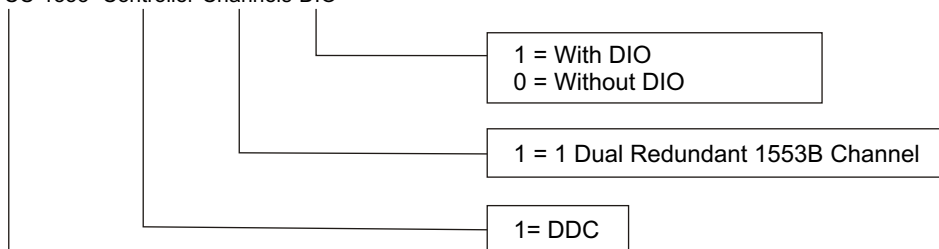- Storage temperature: -20° C to +70° C

Power

- +5 VDC, 1A

Warranty

- 1 year limited warranty

ORDERING INFORMATION

Hardware Selection

AT-PCC-1553- Controller-Channels-DIO

1 = With DIO
0 = Without DIO

1 = 1 Dual Redundant 1553B Channel

1= DDC

Base Product
AT-PCC-1553 = MIL-STD-1553B PCMCIA Card

- Contact sales for support for other Operating Systems
- Contact sales for configuration of front and rear I/O configuration
- Contact sales for environmental options

Distributor/Reseller