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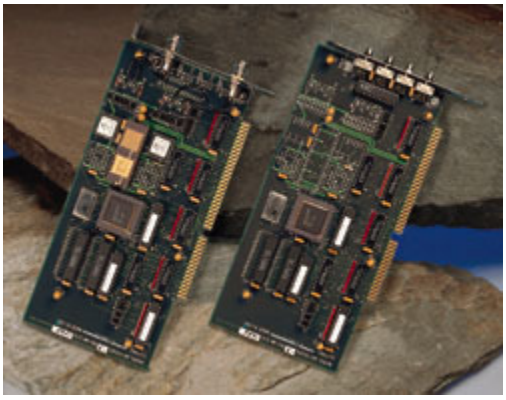
Find the *Abaco Systems / Condor Engineering MS1553PC* at our website: *Click HERE*

MS1553PC

Single-function MIL-STD-1553

Interface for IBM PC/AT and Compatibles

The Condor Engineering MS1553PC boards offer flexible and economical solutions for interfacing to MIL-STD-1553 avionics data buses. As either a Bus Controller (BC), a single Remote Terminal (RT), or as a Bus Monitor (BM), this product allows users to quickly develop software, simulate equipment, monitor data buses or test MIL-STD-1553 avionics hardware and software using economical PC-based platforms. Robust hardware, extensive software, and competitive pricing combine to provide the best value in MIL-STD-1553 interfaces.



FEATURES:

- Fully compliant with MIL-STD-1553B Notice II
- Bus Controller, Remote Terminal or Bus Monitor functionality
- Powerful on-board controller
- Extended temperature range components
- Dual redundant bus support
- Economical
- Built-in-Test
- Easy-to-use menu-driven software
- Interactive command language
- Flexible C utility libraries (DOS, Windows 3.1, 95 and NT)
- Create, save and replay complex test scenarios without C programming
- Up to 32K words of dual-ported RAM provides large message storage capacity

The MS1553PC can operate as either a Bus Controller (BC), a single Remote Terminal (RT), or as a passive Bus Monitor (BM). A powerful, on-board controller manages all critical protocol functions without loading down the PC host.

These products enable users to quickly develop applications, simulate equipment, monitor data buses or test MIL-STD-1553B avionics hardware and software. To maximize and simplify use of the hardware, we include a comprehensive set of software tools at no additional charge.

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Easy-to-use, menu-driven software supplies the Bus Controller, Remote Terminal and Bus Monitor functionality needed for basic test, simulation and monitoring applications.

Our powerful, command-driven, script processing language enables non-programmers to generate complex test scenarios.

Extensive C utility libraries, support rapid development of custom user applications. DOS, Windows 3.1 and Windows 95 utility libraries are provided with the hardware. Windows NT libraries are optionally available.

Hardware Architecture

The powerful BCRTM controller from United Technologies Microelectronics Center provides the on-board intelligence for these MIL-STD interface products. The field-proven BCRTM supports all dual redundant mode codes and message formats, keeps up with maximum data bus traffic, and minimizes PC overhead by isolating the host computer from the bus protocol. Wraparound self tests, programmable intermessage delays, time tagging, programmable event interrupts, automatic polling and interrupt history lists are among the features supported on-board.

Dual-Ported RAM provides easy access to large data buffers with the optimal host computer interface for performance and versatility. Extended temperature parts and rugged construction ensure reliable performance.

SOFTWARE TOOLS AND SOLUTIONS

- Included with all hardware

Utility Libraries

Condor supplies an extensive library of driver routines to allow users to easily develop their own custom applications. DOS utility libraries are supplied in Microsoft and Borland C formats. Windows 3.1 (16-bit DLL), and Windows 95 (32-bit DLL) libraries included with the hardware. Windows NT (32-bit DLL) in optional. C utility libraries can also be readily linked to user applications in other Microsoft or Borland languages (including Fortran, Pascal and Basic).

Menu-Driven Software

Menu-driven DOS software provides an easy way to use the interface boards. It is well suited for learning how the board works, simple applications, demonstrations, and diagnostic tests to ensure that the BC and RTs are talking to each other. Quickly display filtered, real-time data with BCD, binary or IEEE floating point units and labels. Save bus data to disk for later replay and analysis.

Command Language

With no knowledge of C, users can create custom scripts for their unique testing scenarios. Supports interactive use for troubleshooting and custom analysis, as well as batch execution for repetitive test scenarios. Generate, save, and replay test sequences that include synchronized commands for complex simulations. Nest up to 10 levels of script files.

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SPECIFICATIONS

Physical

16-bit, ISA bus half card: 8.4" x 4.2"

Environmental

-40° C to +85° C Operating Temperature
0 to 95% Relative Humidity (Noncondensing)

MIL-STD-1553 Bus Coupling

Each of the two MIL-STD-1553B buses can be either direct coupled or transformer coupled

Interrupt Jumper Selection

IRQ 3-7, 9-12, 14, 15

Electrical

+5 VDC (± 0.5) 440 ma typical
+12 VDC (± 0.5) 10 ma quiescent, 10 ma at 50% duty cycle
-12 VDC (± 0.5) 40 ma quiescent, 140 ma at 50% duty cycle

Documentation

MS1553PC/MS1773PC User Manual
"CP" Menu System User's Manual
MIL-STD-1553 Tutorial

Connectors

MS1553PC: Two BJ-77 Twinax

Address Space

32 KB window (PC-3 models)
64 KB window (PC-4 models)
Memory mapped from segment 8000H to F800H in 32 KB or 64 KB increments

AVAILABLE CONFIGURATIONS

MIL-STD-1553

MS1553PC-3 Single-function MIL-STD-1553 Interface for PC/AT, 8K Words RAM
MS1553PC-4 Single-function MIL-STD-1553 Interface for PC/AT, 32K Words RAM

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