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Find the *Astronics / Ballard Technology CM1553-1* at our website: *Click HERE*

CM1553-1

PCMCIA Interface to MIL-STD-1553



Features

- BC, RT, and Monitor modes
- 32K x 16 memory
- Powerful SµMMIT XT processor
- Support software included
- CoPilot 1553 graphical software available
- PCMCIA advantages:
  - Notebook PC portability
  - Widely supported
  - Easy installation

Description

The CM1553-1 is a dual-redundant MIL-STD-1553 interface in a rugged Type III PCMCIA card. The CM1553-1 allows a desktop or notebook computer to serve as a Bus Controller, Remote Terminal, or Monitor for testing, simulation, and development of MIL-STD-1553 avionics systems.

After the host computer configures and activates it, the CM1553-1 sends and receives 1553 messages autonomously, eliminating host overhead. Both incoming and outgoing message data are buffered in the 64 KB internal memory of the CM1553-1. The host may update CM1553-1 memory with new data for transmission or read recently received data from memory at any time.

Hardware

In Bus Controller mode, message scheduling, frame timing, retries, interrupt generation, and conditional message processing are all programmable. In Remote Terminal mode, the CM1553-1 buffers message data by subaddress and T/R bit. Messages may be single buffered, list buffered, or ping-pong double buffered. Mode codes and subaddresses may be selectively disabled. In Monitor mode, the CM1553-1 maintains a complete history of all bus activity between any user-specified combination of RTs.

The CM1553-1 also offers automatic time-tagging, error detection, and a user-configurable interrupt architecture. All data transfers in remote terminal and monitor modes are automatically time-tagged. The CM1553-1 detects Manchester, sync-field, word count, parity, bit count, and protocol errors in messages. All interrupts enabled by the user are automatically recorded in a 16-item circular Interrupt Log List.

Software

The easiest way to use the CM1553-1 is with CoPilot 1553, a powerful GUI software (available with board or separately).

A library of Application Program Interface (API) functions are included with the CM1553-1 to simplify configuration and data handling. The CM1553-1 can be implemented and configured with only a few API calls.

Driver software is included for Windows® 95/98/NT/Me/2000/XP. Linux drivers are available separately.

Ordering Information

CM1553-1: MIL-STD-1553 interface card. Includes card, API library, cable, and manual.

Windows® 95/98/NT/Me/2000/XP are registered trademarks of Microsoft Corporation. SµMMIT® is a registered trademark of Aeroflex UTMC Microelectronic Systems, Inc.

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BR102-20081030

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