

EXC-1553ccVME/Px

The EXC-1553ccVME/Px is a multi-channel intelligent, MIL-STD-1553 interface board for ccVME systems. The EXC-1553ccVME/Px provides a complete solution for developing and testing 1553 interfaces and performing system simulation of the MIL-STD-1553 bus. The board handles all standard variations of the MIL-STD-1553 protocol. Each channel of the EXC-1553ccVME/Px contains 64K bytes of dual-port RAM for Data Blocks, Control registers, and Look-up Tables. All Data Blocks and Control registers are memory mapped, and may be accessed in real time.

Each of the independent dual redundant EXC-1553ccVME/Px channels may be programmed to operate in one of three modes of operation: Remote Terminal, Bus Controller/Concurrent-RT, and Bus Monitor.

Board Specifications:

- ◆ Up to 16 independent MIL-STD-1553 channels
- ◆ Compatible with ccVME systems
- ◆ Single supply 5V operation
- ◆ Extended temperature range: -40° to +85°C
- ◆ VME Compliance:
 - Slave:
 - Address - A16 & A24/A32
 - Data - D08(E0), D16
 - Interrupt - D08(O), ROAK



Channel Specifications:

- ◆ Independent 1553 dual-redundant channel
- ◆ Real-time operation
- ◆ Operates as RT, BC/Concurrent-RT or Triggerable Bus Monitor
- ◆ Concurrent monitor in RT and BC/RT modes
- ◆ Multiple protocol capability (i.e. 1553A/B, F-16)
- ◆ Multiple-RT simulation (up to 32 Remote Terminals)
- ◆ Programmable broadcast mode
- ◆ Multi-mode triggerable Monitor
- ◆ Extensive interrupt features
- ◆ Service Request Processing
- ◆ On board loopback (A bus to B bus) for complete built-in test capability
- ◆ Transformer Coupled Connection only
- ◆ 1760 Option:
 - Checksum error detection
 - Checksum error injection
 - Header Words
- ◆ Error injection capabilities:
 - Word Count (+/-3 words)
 - Bit Count (+/-3 bits)
 - Incorrect sync
 - Incorrect RT address
 - Incorrect parity
 - Non-contiguous data

Ordering Information

EXC-1553ccVME/Px

Note: "x" specifies the number of dual redundant 1553 channels ordered with the carrier board.
"-001" added to the end of the part number specifies conformal coating option.



February, 2007



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