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M4K1553Px

The M4K1553Px is an intelligent, MIL-STD-1553 interface module for the multiprotocol Excalibur 4000 family of carrier boards. The M4K1553Px provides a complete solution for developing and testing 1553 interfaces and performing system simulation of the MIL-STD-1553 bus. The module handles all standard variations of the MIL-STD-1553 protocol. Each module of the M4K1553Px 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. The M4K1553Px module can be programmed to operate in one of three modes of operation: Remote Terminal, Bus Controller/Concurrent-RT, and Bus Monitor. In addition, the module simultaneously performs as an Internal Concurrent Monitor in Remote Terminal and Bus Controller/Concurrent-RT modes.

M4K1553PxS is a single function version for embedded applications for a single RT. It has a fixed voltage output and no error injection.

General Features

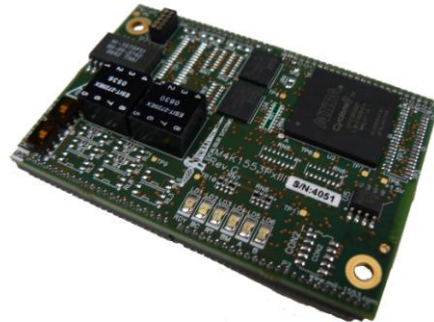
- ◆ Independent MIL-STD-1553 dual-redundant channel
- ◆ 64 KB x 8 true dual-port RAM
- ◆ Module setup modifiable in real-time
- ◆ 32 Bit Time Tag
 - Programmable resolution (RT & MON)
 - Can be read in real-time
- ◆ Direct or Transformer Bus coupling mode
- ◆ Extensive interrupt features
- ◆ Variable Amplitude
- ◆ Loopback Mode for module and cable testing

Mode Related Features

- ◆ Operates as RT, BC/Concurrent-RT or Triggerable Bus Monitor
- ◆ Internal Concurrent Monitor in RT and BC/RT modes
- ◆ Multiple-RT simulation (up to 32 Remote Terminals)
- ◆ Minor and Major frames in BC mode
- ◆ Multi-mode Bus Monitor (SEQ, LL, LUT)
- ◆ Real-time operation
- ◆ Multiple protocol capability (i.e. 1553A/B)
- ◆ Programmable broadcast mode
- ◆ Service Request Processing
- ◆ Error injection capabilities:
 - Word Count (+/-3 words)
 - Bit Count (+/-3 bits)
 - Incorrect sync
 - Incorrect RT address
 - Incorrect parity
 - Non-contiguous data
- ◆ External Trigger Start option
- ◆ MIL-STD-1760 Option:
 - Checksum error detection
 - Checksum error injection
 - Header Words

Physical Characteristics

- ◆ Dimensions: 67mm x 46mm
- ◆ Weight: 30g



Operation Environment

- ◆ Temperature: 0°–70°C standard temperature
-40° to +85°C extended temperature (optional)
- ◆ Humidity: 5%–90% noncondensing
- ◆ MTBF: 314,360 hours at 25°C, G_F

Host Interface

- ◆ 4000 family of carrier boards
- ◆ Power: 5V @ 800mA
12V @ 15mA

Software Support

- ◆ C drivers with source code
- ◆ MerlinPlus software for Windows
- ◆ *Exalt Plus*: Excalibur Analysis Laboratory Tools (optional)
- ◆ Additional software may be available on our website

Ordering Information

- ◆ **M4K1553Px** Multifunction module
- ◆ **M4K1553PxS** Single function
- ◆ **M4K1553PxM** Monitor-only
- ◆ **M4K1553Px-1760** MIL-STD-1760 option
- ◆ Additional Options:
 - E Extended temperature
 - 001 With conformal coating
 - LB Onboard loopback option

Note: When ordering this module with a 4000 family carrier board, use the module code specified in the *Module Ordering Information* on our website, or in the *User's Manual* of the carrier board.

These specifications are subject to change without notification



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