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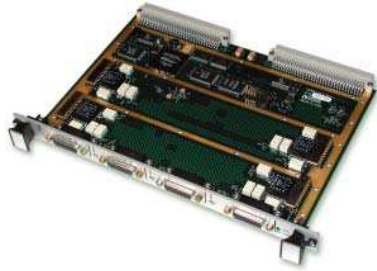
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FEATURES

1, 2 or 4 Independent MIL-STD-1553 Dual Redundant Channels

- **Multi-function Features**
 - Simultaneous Bus Controller, 31 Remote Terminals, or Bus Monitor
- **Single-function Features**
 - Bus Controller, 31 Remote Terminals, or Bus Monitor
- **Bus Controller - BC**
 - BC->RT, RT->BC, RT->RT
 - Mode Codes, Broadcast and single-shot messaging
 - Programmable time delays
 - Major/Minor frames
 - Real-time conditional branching
 - Two aperiodic messaging methods
- **Remote Terminal - RT**
 - 1 to 31 RT's
 - RT data wrapping
 - Multiple RT buffers
 - 1760 startup time w/busy bit set
 - Dynamic Bus Control
 - Automatic Mode Code and status bit responses
 - Programmable response time
 - Hardwired RT Address selection
- **Bus Monitor - BM**
 - Full error detection
 - Multiple monitoring methods
 - 45-bit time-tagging
 - Adv. interrupts and triggers
- **Architecture**
 - BC & RT error injection/detection
 - BC & RT link list structures
 - 1 Mbyte RAM per channel
 - Onboard diagnostic bus (non-ruggedized boards only)
 - Ruggedized industrial and conductively cooled options
 - IRIG-B Receiver/Generator option



The QVME-1553 provides new levels of performance and flexibility for MIL-STD-1553A and B Notice II on the VMEbus. Available in commercial, industrial and conductively cooled versions with one, two or four dual-redundant channels, the QVME-1553 includes advanced API (Application Programming Interface) software that reduces application development time. Standard features include selectable transformer or direct coupling, 1 Mbyte of RAM per channel, 45-bit message time-tagging, triggers, extensive BC & RT link-list structures, error detection/injection, advanced BC functionality, automatic/manual RT Status Bit and Mode Code responses plus IRIG/GPS synchronization capabilities. Optional IRIG-B signal Receiver/Generator, variable voltage outputs and environmental configurations are available. The QVME-1553 Bus Monitors provide unparalleled error detection and 100% monitoring of fully loaded buses.

Multi-function Interfaces

QVME-1553 multi-function interfaces

are easily configured to operate with simultaneous Bus Controller, 31 Remote Terminals and Bus Monitor functionality.

Single-function Interfaces

Single-function QVME-1553 interfaces have all the features and functionality of the multi-function versions, but only one major operational mode is enabled at a time. Each interface can independently emulate either a Bus Controller or 31 Remote Terminals or Bus Monitor.

Software

Our high-level "abstract" 1553 API is provided in source code, along with support for VxWorks, LynxOS v4.0, Windows XP 2000, Me, NT, 98 and 95. LabVIEW, Linux and Solaris support is available. Contact factory for other options. To access 1553 functionality without software development, *BusTools/1553*, Condor's MILSTD-1553 bus analysis, simulation and data logging/monitoring solution is available using our integrated PCI-MXI-2 support.



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SPECIFICATIONS

Physical

- 6U VME card
- Standard configuration has front bezel I/O

Environmental

- Standard operating temperature range: 0°C to +70°C
- Relative humidity: 5 to 90% (non-condensing)
- Optional ruggedized, extended temp and conductively cooled configurations

Software

- API - VxWorks, LynxOS v4.0, Windows XP, 2000, Me, NT, 98, and 95 included
 - Source code API library included
- GUI - Optional support for BusTools/1553 GUI bus analyzer with PCHMXI-2 (mf boards only)
 - Contact factory for Linux, Solaris and other OS

Connections

- Programmable direct or transformer coupling
- Transition cabling for each channel
 - two CJ70 jacks for 1553
 - two BNC (male) for trigger in/out
 - two BNC (male) for IRIG in/out
- 4 bi-directional avionics-level dedicated discretes
- On-board diagnostic bus

Multi-function Operational Modes

- Simultaneous BC, 31 RTs and BM

Single-function Operational Modes

- BC or 31 RTs or BM

On-board Shared RAM

- 1 Mbyte per dual-redundant channel

Power (+5 VDC @ 87% 1553 bus duty cycle)

- 2 channels: 1.4A typical
- 4 channels: 2.2A typical

Interface

- A16, A24, A32 addressing
- D16, D32 data transfer
- VXI MODID supported

Optional Configurations

- 1, 2 or 4 dual-redundant channels
- Variable voltage transceivers
- Optional rear panel (P2) I/O
- Optional ruggedized, -40°C to +85°C operating temperature range
- Optional ruggedized, VITA compliant conductive cooling (max +71°C rail temp)
- Optional conformal coating
- Optional IRIG-B Receiver (AM or DC/TTL) and Generator (DC/TTL)

DESCRIPTION

Bus Controller

- Programmable control over:
 - Major and minor frame content and timing
 - Intermessage gap times
 - Response time-out and late response
 - Multiple BC retry
- Modify messages, data or setup while card is running
- Insert aperiodic messages into a running BC list
- "Oneshot" mode for simplified BC operation
- Conditional message sequencing based on real-time message data or status
- Selectable interrupt generation and status messages
 - Full range of system conditions
 - All detected errors
- Full error detection
 - Invalid word - Late response
 - Bit count error - Early response
 - High word - No response
 - Low word - Incorrect RT address
 - Inverted sync - Parity error
- Extensive programmable error injection (on a per word basis)
- Synchronize BC operation to external time source

Remote Terminal

- Multiple RT simulation (up to 31 RTs)
- Programmable error injection (on a per word basis)
- Modify data, status words or setup while card is running
- Programmable message content (linked message buffers)
- Interrupts can be generated on a per message basis upon End of Message and error conditions
 - Hardware RT addressing

Bus Monitor

- Capture 100% fully loaded bus traffic with:
 - Time-tagging - Error status
 - Word status - Message status
 - RT response time
- Interrupts can be selected by RT / SA / WC
- Extensive filtering and triggering options
 - By individual RT/subaddress
 - Transmit, receive or broadcast mode codes
 - Internal or external triggering
 - Trigger output on user specified data
- Real-time bus playback with RT edit mode
- 45-bit, microsecond resolution timetagging
- IRIG/GPS synchronization

Warranty: 3 year limited hardware warranty
No cost library and driver upgrades

See our on-line Military Products Configuration Guide for available configurations, <http://www.condoreng.com>



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