IIB-1553-VXI-4C

The IIB-1553-VXI-4C is an intelligent interface card which provides 4 independent channels for full MIL-STD-1553 test, simulation and bus analysis functions on the VXI bus. All 1553A, 1553B, McAir and STANAG 3838 variants are supported. Each independent channel may be operated as a concurrent Bus Controller (BC) and up to 31 Remote Terminals (RT) with a windowed Bus Monitor (BM), or as a stand-alone Chronological Bus Monitor (CBM) with comprehensive multi-level triggering capability. Full error injection capability is provided in BC and RT modes, with full error detection in BC, RT, BM and CBM modes. Each channel provides a variable amplitude dual redundant 1553 interface, with 2 Mbytes of dual ported RAM. The board is supplied with C drivers in source code and Windows menu driven software as standard.

SPECIFICATIONS

General Specifications

- → MIL-STD-1553A/B, STANAG 3838 compatible
- McAir compatible
- 2 Mbytes Dual Port RAM per channel
- BIT and diagnostics
- All set-ups programmable in real time
- Programmable for Direct or TX coupling
- Programmable TX amplitude
- Full error injection (BC & RT)
- Full error detection (all modes)

Bus Controller

Programmable Tx amplitude
Programmable inter-message delay
Programmable RT response time
Programmable Frame frequency
Programmable message sequencing
Messages and data changeable in real time
Acyclic message insertion
BC-RT, RT-BC, RT-RT, mode code, broadcast
Multiple data buffering, all transmitted and received
messages

Full error injection / detection

Remote Terminal

Multiple RT simulation (up to 31 RT's)
All sub-addresses selectable
Selectable Broadcast mode
Programmable Mode Code sub-address
Programmable Status word
Programmable RT response time
Message time tagging (32 bit @ 500 nSec)
All active RT tables changeable in real time
Data and Status words changeable in real time

Bus Monitor

All data buffers monitored All data time tagged (32 bit @ 10 uSec resolution) All data available for analysis

Chronological Bus Monitor

Programmable conditional triggers and masks Message time tagging (32 bit @500 nSec resolution) Store all, store only, store after modes Full error detection capability

Host Interface

Device Type: VXI Register Based Instrument.
VXI Interface: Slave A24 or A32, D16
Memory Space: 2 Mbytes per channel
Interrupts: Two Vectored VXI Interrupts.

Power

+5v +/- 5% 3.60 Amps +12V +/- 5% 370 mAmps -12V +/- 5% 15 mAmps

Physical Characteristics

Module Size: "C" size, one slot wide. Weight 1550 grams (3.4 1bs).

Environmental

Operating Temp. $0 - 50^{\circ}$ C Storage Temp. $-20 - 70^{\circ}$ C

Humidity 5% - 95% Noncondensing MTBF (MIL 217F) 86,932 hrs at 20° C (Gb)

Software Support

C drivers in source code Windows menu software (WinNT, Win95)

Order Codes

1U10936G01 IIB-1553-VXI-4C

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