

IIB-3910-VME-2C

The IIB-3910-VME-2C is a 6U single VME slot intelligent interface card providing complete STANAG 3838 and STANAG 3910 test, simulation and bus analysis capability, for two 3838 dual redundant and two 3910 buses, which support optical dual redundant and electrical single redundant 3910 protocols. Each IIB-3910-VME-2C bus1 supports concurrent Bus Controller (BC) and up to 31 Remote Terminals (RT) with Bus Monitor (BM). An additional stand-alone Chronological Bus Monitor (CBM) facility is also provided, with powerful multi-level triggering capability. Full error injection capability in both 3838 and 3910 modes is provided in BC and RTs modes, with full error detection in BC, RT, BM and CBM modes. Dual redundant 3838 interface, with user selectable dual redundant optical or single redundant electrical 3910 interface are featured. 8 Mbytes of dual ported RAM are provided. An IRIG-B timer option is also available. The board is supplied with C drivers in source code and Windows menu driven software as standard.

SPECIFICATIONS

General Specifications

- ➔ STANAG 3838 compatible
- ➔ STANAG 3910 compatible
- ➔ PrEN 3715 compatible High Speed interface
- ➔ 8 Mbytes Dual Port RAM per channel (all modes)
- ➔ BIT and diagnostics
- ➔ All set-ups programmable in real time
- ➔ 3838 programmable for Direct or TX coupling
- ➔ Full error injection (BC & RT)
- ➔ Full error detection (all modes)
- ➔ Programmable Bus coupling matrix
- ➔ External trigger-in and trigger-out
- ➔ IRIG-B timing (64 bit) option

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

VME: Slave, A32, A24 Addressing
D32, D16, D8, Block Transfers
Memory Space: 16 Mbytes
Interrupts: D08 (ROAK, RORA)
IRQ 1-7

Power

+5v +/- 5%	1.45 Amps
+12V +/- 5%	250 mAmps
-12V +/- 5%	50 mAmps

Physical Characteristics

Dimensions	175mm x 160mm (6U)
Weight	440 grams

Environmental

Operating Temp.	0 – 50°C
Storage Temp.	-20 – 70°C
Humidity	5% – 95% Noncondensing
MTBF (MIL 217F)	87,1438 hrs at 25°C (Gb)

Software Support

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

Order Codes

1U10997G01 STANAG 3910/3838 for VME Bus
Specify IRIG-B timing option if required

Contact Information

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