

# IIB-3910-VXI

The IIB-3910-VXI is message based intelligent interface card for dual redundant 3910 and 3838 applications. It gives full 3910 and 3838 test, simulation and bus analysis capability on the VXI bus, providing 3910, 3838 1553A, and 1553B variants in a single card. Each channel supports concurrent Bus Controller (BC) and up to 31 Remote Terminals (RT) with passive Bus Monitor, and an independent Chronological Bus Monitor (CBM). Full error injection capability is provided in BC and RT modes, with full error detection in BC, RT, BM and CBM modes. The unit provides dual redundant prEN3715 compatible 3910 interface, with variable amplitude dual redundant 3838 interfaces. External trigger-in and trigger-out are provided, with both Primary and secondary bus coupling for direct and stub bus, with access to internal 1553 bus, on the front panel. VXI "plug&play" drivers are supplied in WIN95, WINNT, and GWIN95 and GWINNT formats.

## SPECIFICATIONS

### General Specifications

- STANAG 3910, STANAG 3838 compatible
- 1 Mbyte DRAM for WSP message storage
- 2 Mbyte Dual Port RAM
- BIT and diagnostics
- All set-ups programmable in real time
- Programmable 3838 for direct/stub coupling
- Programmable 3838 TX amplitude
- Full error injection (BC & RT)
- Full error detection (all modes)
- External trigger-in and trigger-out

### Bus Controller

96 Kbytes dedicated RAM for message storage  
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 @ 1 uSec)  
All active RT tables changeable in real time  
Data and Status words changeable in real time

### Passive 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 @ 0.5 uSec resolution)  
Store all, store only, store after modes  
Full error detection capability

### Host Interface

VXI: Message based servant  
Word Serial Protocol  
A16, A24 Master, D16 Slave  
Memory Space: 2 Mbytes  
Interrupts: IRQ 1-7

### Power

+5v +/- 5%	4.80 Amps
+12V +/- 5%	110 mAmps
-12V +/- 5%	50 mAmps
+24V +/- 5%	30 mAmps
-24V +/- 5%	90 mAmps

### Physical Characteristics

Dimensions	"C" size, single slot
Weight	2.4 Kgs (4.01 lbs)

### Environmental

Operating Temp.	0 – 50°C
Storage Temp.	-20 – 70°C
Humidity	5% – 95% Noncondensing
MTBF (MIL 217F)	62,567 hrs at 25°C (Gb)

### Software Support

LabWindows/CVI drivers  
LabView drivers

### Order Codes

1U10853G01	IIB-3910-VXI Optical version
1U10853G02	IIB-3910-VXI Electrical version

## Contact Information

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