## HB-1553-PC104+

The IIB-1553-PC104+ is an intelligent interface card giving full MIL-STD-1553 test, simulation and bus analysis capability on the PC104+ bus, providing 1553A, 1553B, McAir and STANAG 3838 variants in a single card. The IIB-1553-PC104+ 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 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. The unit provides a variable amplitude dual redundant 1553 interface. 2 Mbytes of dual ported RAM are provided. 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 (all modes)
- 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**

PC104+: Slave, 32 Bit data Memory Space: 2 Mbytes IRQA#

#### **Power**

Interrupts:

Total > 15 Watts

+5v +/- 5% 600 mAmps +12V +/- 5% 160 mAmps

#### **Physical Characteristics**

96mm x 90mm Dimensions Weight 155 grams

#### **Environmental**

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

Humidity 5% - 95% Noncondensing MTBF (MIL 217F) 112,745 hrs at 25°C (GB)

## **Software Support**

C drivers in source code Windows menu software (WinNT, Win95) RT Production Test Plan (full protocol)

## **Order Codes**

1U11012G01 MIL-STD-1553 for PC104+ Bus

## **Contact Information**



Technical & Sales queries: support@western-av.com

Phone: 353-61-472233 Fax: 353-61-471675

Web-site: http://www.western-av.com