1553ETH BOX

1553ETH ACQUISITION BOX

FEATURES

- fully self-contained data spy for an MIL STD 1553 link

- highly portable solution for testing and inspection applications in the field

- Ethernet linking to the processing computer

- Embedded solution

- Norme VME-ANSI/IEEE 1014

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DESCRIPTION

The 1553eth box is made from aluminium and is coloured black, with a rounded-edge rectangular slab shape. The connections are located on the front end (1553 bus and power supply) and rear end (Ethernet). Indicator lights on the top face of the box give the operating status of the power supply and the 1553 acquisition.

The bottom face of box has M5 screwed inserts to allow fastening to a user-designed plate if required. There is no on-off switch on the box. As soon as it is connected and powered up, it goes through initialisation then immediately begins acquisition.

Each message from the traffic is date stamped to the nearest microsecond, based on an internal timer whose accuracy is within 10ppm. Messages are then sent over the Ethernet in UDP mode, either to a designated address or as multicasts.

A utility running under Windows XP or Linux is available for setting the box up with its own IP address as well as the destination address for the captured data.

A demonstration application is supplied in source code form. This enables acquisition along with hexadecimal display of the acquired traffic.

In the currently available version, only non-redundant buses can be spied on (please enquire with us about the availability of the redundant bus version).

The 1553eth box uses the same hardware platform as the PCMeth remote measurement acquisition box. Both functions can be combined in a single unit.

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SPECIFICATIONS (t = 25°C)

Detailed characteristics	
Dimensions	
	108 (W) x 42 (H) x 200 (L) mm
Weight	
	750g
Operating temperature range	
	0°C to 55°C
Power supply	
	28 VDC (9–36V, 40V over 100 ms). Power consumption 8W. Insulation 1500V 1mn Power drop-out resistance: 4ms
Acquisition bus	
	MIL STD 1553 B mono bus (non-redundant) per long coupling bus.
Connections	
	Power supply: Souriau 810-0008-33PN01 Ethernet: RJ Field (Amphenol Socapex RJF TV 2 2 G 00) MIL STD 1553 bus: Raychem DK621-0440-4S
Support	
	Configuration and demonstration program (source code) for Windows XP and Linux.
Indicator lights	
	Power supply Configuration 1553 acquisition

HOW TO ORDER?   1553ETH

ACCESSORIES

1	11/06