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MSR-RG40X



Overview

The Multi Link Recorder (MSR) enables passive recording of SpaceWire transfers in a !U form factor.

The MSR can record up to four links simultaneously. It monitors packets in both directions (Tx and Rx) of the SpaceWire link, adding time tags at the start and end of each packet and sending the data to a computer for recording and post analysis. Triggers can be set to capture low level signal waveforms for post analysis.

The MSR RG40X device is capable of being installed in a standard 19 inch rack allowing for simple installation in a laboratory / engineering environment,.

It has a series of SMA connectors on the rear for event and time synchronization as well as management of SpaceWire connectivity.

The Ethernet connection allows for a simple connection to application hosts without the need to install hardware drivers,

The device can supports up 4 SpaceWire links depending upon customer requirements , the MSR supports SpaceWire speeds from 10Mbs to 400 Mbs.

4Links provides a software for all popular operating systems and environments (including Linux, Windows, MacOS and LabView). As well as providing an API command line utilities are provided which enables SpaceWire testing to be performed without resorting to application programming.

Options

Additional feature options may be purchased with the base firmware, or may be purchased at later date as firmware update.

These options allow the user to delve deeper into the SpaceWire stack or to co-operate with other devices in complex topologies.

TimeTag (TT)

The **TimeTag** option allows for the time tagging of SpaceWire events to a resolution of nanoseconds..

Time synchronization between units is possible over the SMA connectors at the rear of the unit. Time-tags may also be generated on an external event.

Error Reporting (ER)

The **Error Reporting** option allows for the detailed reporting of errors on a SpaceWire data stream.

Error Waveforms (EW)

The **Error Waveform** option allows for the recording of SpaceWire signal data in the event of an error or an external trigger.

Output Enable (OE)/Output Disable (OD)

The **Output Enable / Output Disable** options allow for the enabling/disabling of SpaceWire connectivity based on the status of an external hardware signal.

Device Information

Form Factor	19 Inch Rack
Height	1U
Ethernet	100Mbs/1GBs
SpaceWire Links	1 to 4
SpaceWire Throughput	400 to 10 Mbits
SMA I/O Voltage	0.1 to 4.8V
Power Supply	24 to 48V DC
Power Consumption	20 Watts
Export Classification	EAR-99
	TAA Compliant

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