

Absolute Time Interface

ATI-RG408-S



Overview

4Links' Absolute Time Interface (ATI) enables all the 4Links test units, in a test system, to be synchronized to an accurate "Time of Year". Timing measurements can be made with any number of units, all sharing a common time reference. The ATI also has a single activated SpaceWire port which outputs a 1 pulse per second SpaceWire Time Code. The Time-code Generator (TG) enables the ATI to output up to four independent and configurable Time Codes, all synchronized to Time of Year.

Features

- To receive an IRIG-B00x signal from a separate IRIG receiver, and use it to maintain a common time reference for a number of 4Links SpaceWire test equipment units;
- To provide a time synchronisation signal for most members of the 4Links EtherSpaceLink family of SpaceWire test equipment;
- To transmit a SpaceWire Time Code once per second to a SpaceWire network;
- To provide status information via its front-panel display.
- To be configurable using its front-panel switch.

Product Facts

- Products conform to ECSS-E-ST-50_12C (31st July 2008)
- Receive speeds in the range from 1.2Mb/s to more than 400Mb/s
- User selected transmit speeds, available from 1Mb/s up to more than 400Mb/s
- Two standard 9-way Micro-miniature D-type SpaceWire socket connectors
- IRIG B002 (100pps, pulse-width code, no carrier, BCD Time of Year)
- Any number of units in a synchronization chain, not exceeding 50 metres length of all cables
- Synchronization to IRIG, plus/minus 500ns or better
- Synchronization is achieved using eight SMA connectors on the back of each unit

Options

TG: Timecode Generator - provides up to four independent and configurable SpaceWire Time Codes.

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