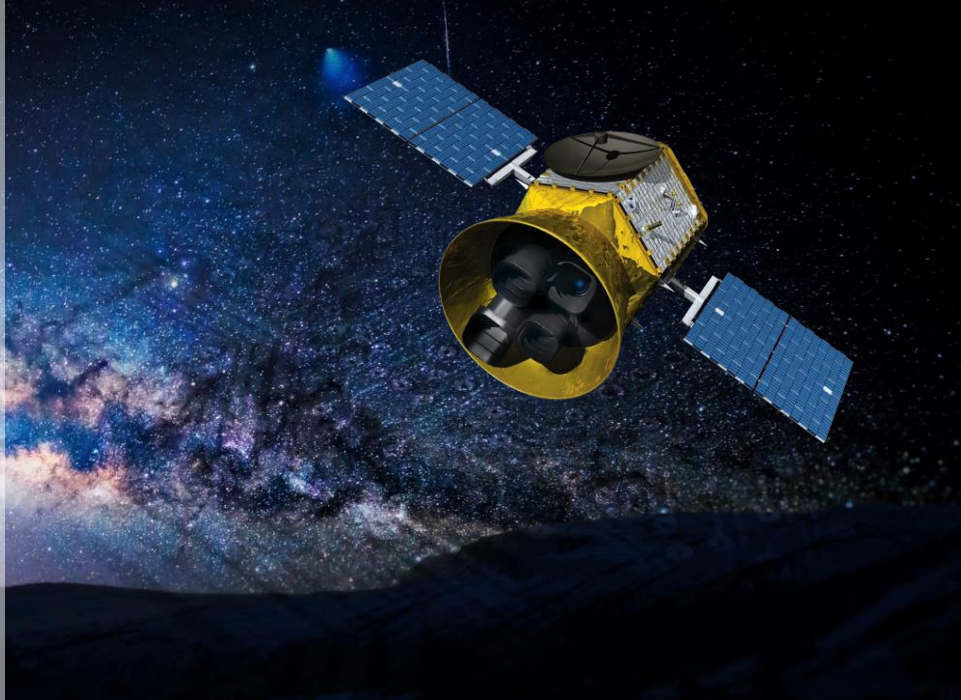


SpaceWire Analyser PXI



The SpaceWire Analyser PXI is a complete testing solution for high-speed links in space applications, i.e., SpaceWire. It is fully integrated in the National Instruments environment and LabVIEW and can be quickly set up to test SpaceWire based devices at their full bandwidth.

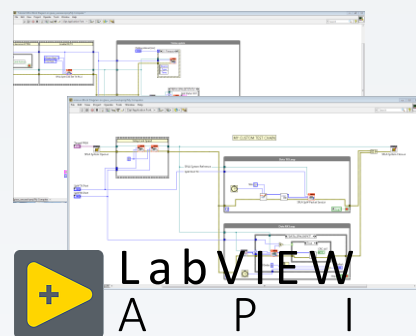
The SpaceWire Analyser is based on PXI which is a modular instrumentation standard from National Instruments. It can count on more than 1,500 products from more than 70 vendors, speeding up testing, improving productivity, faster throughput, and increasing scalability,

resulting in an overall great cost reduction. The SpaceWire Analyser is built upon the PXIe-6591R National Instruments high-speed FPGA board which guarantees a seamless integration with the LabVIEW environment.

IngeniArs PXI adapter boards convert the general purpose connectors of the National Instruments equipment to SpaceWire and SpaceFibre connectors. The SpaceWire PXI Analyser can be customised on request to support the next generation serial communication protocol SpaceFibre.

Key Features

- Built upon the PXIe-6591R National Instruments high-speed FPGA board
- Extended support to NI Flex-RIO PXI-797x series
- Integrated very high speed serial interfaces EGSE
- Real time operations
- Packet generation and analysis with fault injection mode
- Operating modes:
 - Link Analyser
 - EGSE Device Emulator
- Controlled through dedicated LabVIEW interface
- LabVIEW APIs for users own custom test chains
- Fully integrated with National Instruments PXI environment
- 4x SpaceWire interfaces (200 Mb/s)
- 4x SpaceFibre interfaces (6.25 Gb/s)



LabVIEW
A P I



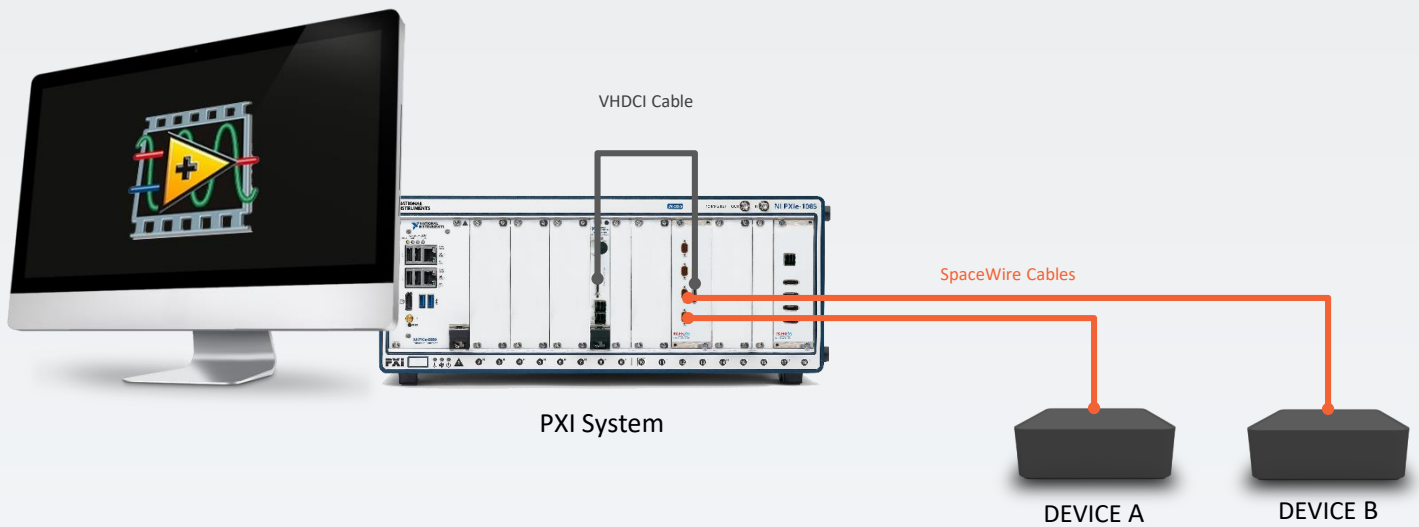
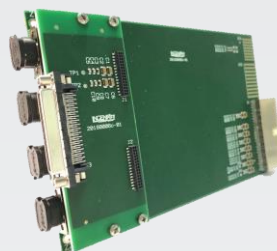
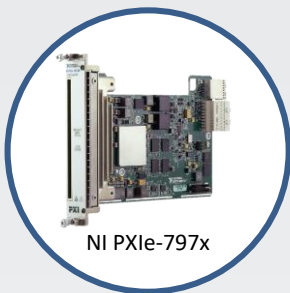
PXIe CHASSIS

PXIe CONTROLLER

NI PXIe FPGA board

IngeniArs SpW Adapter PXI

IngeniArs SpFi Adapter PXI



EGSE/device emulator

Emulates on-board SpaceWire/SpaceFibre instrument or component

Link Monitoring

Performs link monitoring between two SpaceWire/SpaceFibre devices