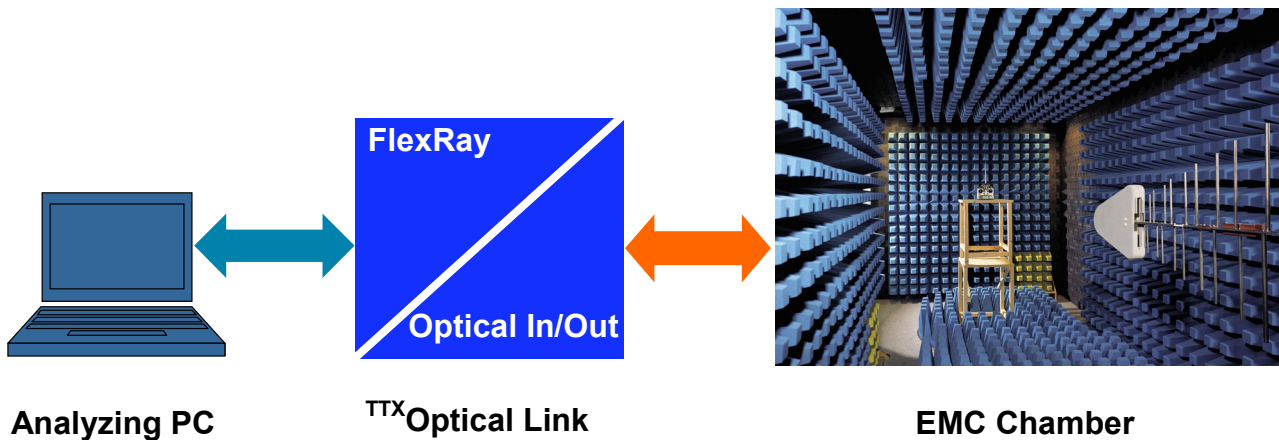


TTX Optical Link for FlexRay



TTX Optical Link – EMC Testing of FlexRay ECUs

The TTX Optical Link is a compact device to decouple FlexRay bus signals for EMC testing. It converts FlexRay signals to optical signals via fiber cable and vice versa thus enabling optical transmission of FlexRay signals up to 30 meters (extension up to 100 meters possible on request) while ensuring minimum influence on the signals bit timing. TTX Optical Link provides a physical layer that allows adaptation to the needs of the tested system.

With its innovative shielded housing design and built-in accumulator it fulfills all the requirements to run EMC tests for FlexRay-based systems while enabling full access to the FlexRay bus using common analyzing tools.



The TTX Optical Link is perfectly suitable as decoupling device for monitoring of systems. Due to its bidirectional character it supports both sending and receiving of data.

An internal logic switches between these modes depending on the attached communication. TTX Optical Link features an accumulator for 24 hour continuous use and fulfills the requirements of the ISO 11452-2 and CISPR 25 standard.

Features

- Optical decoupling for FlexRay
- Physical layer
- FlexRay channel connector: LEMO
- Innovative construction method to prevent distortion of FlexRay Signals:
Bit distortion +/- 2 ns.
- Fibre optic connector type: ST Port
- Optic fibre cable 10 m included (longer cables on request)
- Status LEDs
- System monitoring during measurements
- Signal Delay over two TTX^{TTX}Optical Links connected via fiber cable
(FlexRay – TTX^{TTX}Optical Link – fiber cable – TTX^{TTX}Optical Link – FlexRay)
Approx. 110 ns with 5 m fiber cable
Approx. 130 ns with 10 m fiber cable

Physical Specifications

- Dimensions (mm): 141 mm x 120 mm x 37 mm (W x D X H) without connectors
- Weight 440 g
- Operating temperature: 0°C to +70°C
- Robust housing

Power Supply

- Internal Li-Ion battery 7.4V / 2.3Ah
- Accumulator for 24 hours use:
 - 20 hours with continuous data transmission (100% utilization)
 - 32 hours without data transmission
- Included charger type ACS410B

For further information, including price and availability, contact products@tttech-automotive.com

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