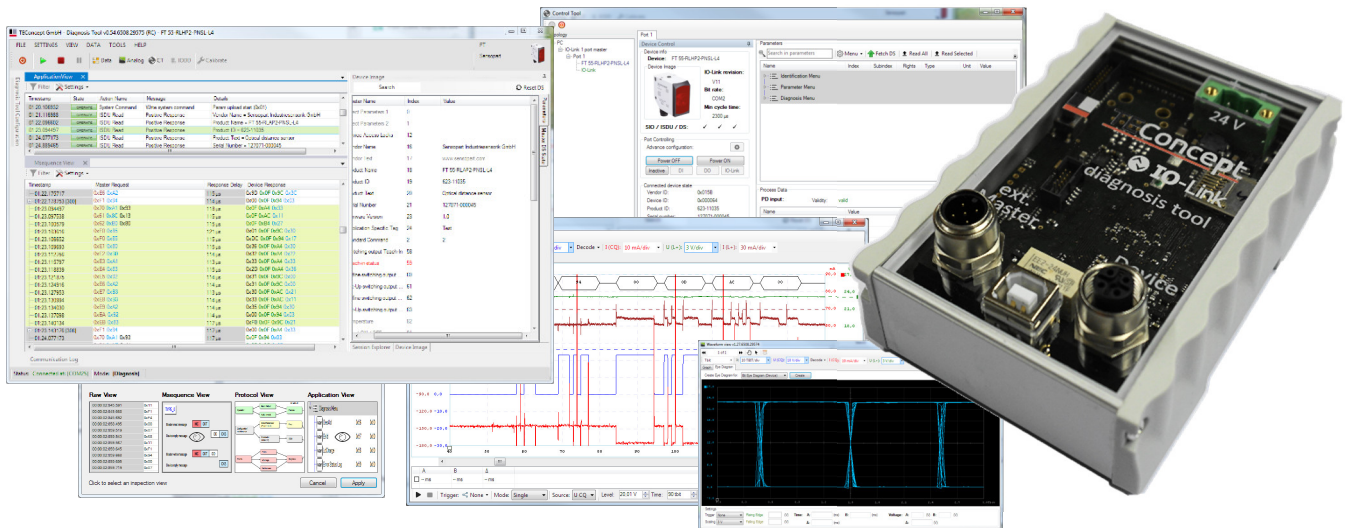




Use IO-Link Diagnosis Tool

Universal · Smart · Easy



Overview

The IO-Link Diagnosis Tool analyzes the IO-Link signal both electrically and logically. It is an essential tool for engineers and users of the IO-Link technology to identify any kind of issues of the IO-Link connection.

Functional Description

The Diagnosis Tool is based on a high-speed multi-channel A/D converter that measures voltages and currents on both the C/Q and the L+ line. The measured data are transferred via USB to a software running on a Windows PC.

The IO-Link communication can be analyzed on byte-level, on M-sequence level, on protocol level and even on application level. The IO-Link communication is in the latter case visible in clear text. Folding, filtering and search functions simplify issue identification.

It is also possible to visualize waveforms and even eye-diagrams for Master and Device signals can be extracted.

Typically the Diagnosis Tool is inserted between Master and Device, however, an integrated Master allows to check Devices without external Master. The tracked communication is directly shown on a PC or stored on an embedded SD-card

Diagnosis Tool Features

- Timing accurate IO-Link signal analysis
- High speed, IO-Link synchronized ADC
- Timing precise software UART decoding
- Optional hardware signal direction detection
- Byte-, frame-, protocol- or IO-Link-based decoding
- Sophisticated filtering and search features
- Device image collection of all data sent
- Data storage image collection
- Recording to hard disk / SD-card
- Analog time signal view for UL+, IL+, UCQ, ICQ
- Serial decoding in analogue waveform view
- Eye diagram view separated for Device/Master
- Interactive rulers for analogue measurements
- User calibration support

Advantages

- Fast and easy IO-Link issue analysis
- Logical and electrical issue detection
- Suitable for development and application

Deliverables

- IO-Link Diagnosis Tool
- 24V power supply, USB cable
- Windows-based graphical user interface