

Overview

Current sensors and actuators are equipped with small but powerful microprocessors that introduce advanced features such as parameterization and diagnostics to these devices. However, those features are currently not visible to standardized project planning tools.

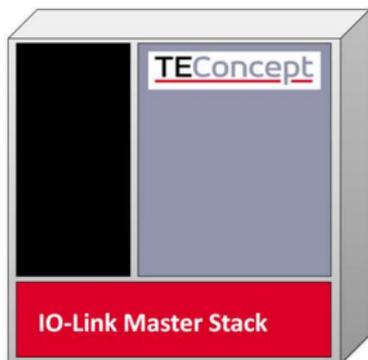
IO-Link, the new bi-directional, digital, point-to-point communication standard (IEC 61131-9) now offers standardized mapping of advanced sensor and actuator features into the automation tool environment.

Our IO-Link master software stack allows automation system and machine tool providers an easy way to integrate state-of-the-art IO-Link technology into their products.

Features

- Complies to latest IO-Link communication specification
- Multi-port support. The number of ports only limited by hardware resources.
- Cycle times: 0,4ms @ 230,4 kBaud
- 2,3ms @ 38,4 kBaud
- 18ms @ 4,8 kBaud
- Footprint: RAM: ~30kB + 5kB/Port
- Flash: ~50kB
- System load max. 20MHz/Port (COM3-speed)
- Standardized Master Interface (SMI) API
- TEConcept SMI Transport Layer (TSTL) support
- Drivers currently available:

Microcontroller	PHY
STM32	CCE4510
RA4M2	CCE4511
RL78G23	L6360
RX72M	LTC2874
RX231	MAX14819
IMX 8M Plus	TIOL112
IMX RT1180	ZIOL2401
and more...	and more...



Description

The IO-Link master firmware library provides full access to all features and services defined in the IO-Link Communication Specification V1.1.4. The stack supports all the important features such as ISDU, Interleaved Mode and diagnostics handling with event details. The new Standard Master Interface "SMI" is fully supported.

Deliverables

- Development license including IO-Link Master stack source code
- Manufacturing license
- Documentation with installation manual and hardware adaptation description
- API user guide
- Demo application
- Compiler & linker example setups
- IO-Link configuration tool with IODD interpreter

Additional Services

- Evaluation boards
- Software/Hardware design support
- Conformance tests (Master Tester)