



Use **IO-Link** Universal · Smart · Easy

Overview

Current sensors and actuators are equipped with small but powerful microprocessors that introduce advanced features like 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**) offers now a standardized mapping of advanced sensor and actuator features into the automation tool environment.

Our IO-Link software stack opens sensor and actuator manufacturers a cost efficient and easy way to integrate state-of-the-art IO-Link technology into their products.

Specifications

- Compliant to latest IO-Link communication specification
- Synchronous or asynchronous process data handling
- ISDU support
- Data storage
- Process synchronisation
- Footprint: RAM: ~0.4 kB, Flash: ~8-10kB
- System load ~ 50 % on 8-Bit processor @ 16 MHz.
- Porting to different μ Cs and IO-Link PHYs requires only an exchange of drivers.
- Currently available ports:

Microcontroller
ADUC7xx
ATmega64/324/328
ATSAM3S
ATtiny
C8051F31x/33x/37x/39x
EFM32
Kinetis K02/K60
LPC11xx
MSP430
PIC32MXxxx
RL78/xxx
STM32
STM8L/STM8S
... (to be continued)

PHY
CCE4501
HMT7742
iC-GF
L6362A
LT3669-2
MAX14820
MAX14821
SN65HVD101
ZIOL2401
MAX14827A
MAX14828



License model

- Royalty-free license
- One-year maintenance included
- Full source code

Deliverables

- Fully ported stack operational on the target hardware platform
- Driver for target processor architecture
- Driver for target IO-Link PHY
- IO-Link demo application
- Compiler and Linker setups for target development environment
- API reference manual

Additional Services

- IO-Link consulting and additional Technical support
- Customized IODD development
- IOL-Device and Master Hardware and Software design
- Supply of development tools like
 - USB master (1-port, 4-port),
 - Conformance Test systems
 - IODD-Design tool
 - Reference designs