



### Overview

Current sensors and actuators are equipped with small but powerful microprocessors that introduce advanced features such as parameterization and diagnostics to these devices. **IO-Link™**, is a bi-directional, digital, point-to-point communication standard (IEC 61131-9) which offers standardized mapping of advanced sensor and actuator features into the automation tool environment.

Our IO-Link software stack provides 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 V1.1.4 IO-Link communication specification
- Synchronous or asynchronous process data handling
- Data storage
- Process synchronisation
- Footprint: RAM: ~2.5 kB, Flash: ~12 kB
- Porting to different  $\mu$ Cs and IO-Link PHYs requires only an exchange of drivers
- Any combination of following portings is available:



### 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
- Options: BLOB, Firmware Update and Parameter Handler available
- Supply of development tools such as
  - USB master (1-port, 4-port)
  - Conformance Test systems
  - IODD-Design tool
  - Reference designs

|                           |                      |
|---------------------------|----------------------|
| Microcontroller           | PHY                  |
| ATmega                    | CCE4501/2            |
| ATSAMD                    | HMT7742/8            |
| dsPIC33                   | iC-GF                |
| GD32Fx                    | L6362A,<br>L6364     |
| HC32Fx                    | LT3669-2             |
| MAX32660                  | MAX1482x             |
| MSP430, MSPM0             | MAX22513/5           |
| NXP LPXxx, S32xx,<br>i.MX | MAX22516/22          |
| PSoC                      | RH4Z2501             |
| RL78/xxx                  | SN65HVD101           |
| STM32xxx                  | TIOL112              |
| STM8L/STM8S               | ... and many<br>more |