# IO-Link Device Stack V1.1.4

## 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 µCs and IO-Link PHYs requires only an exchange of drivers
- Any combination of following portings is available:

| Microcontroller | PHY |
|---|---|
| ATmega | CCE4501/2 |
| ATSAMD | HMT7742/8 |
| dsPIC33 | iC-GF |
| GD32Fx | L6362A, L6364 |
| HC32Fx | LT3669-2 |
| MAX32660 | MAX1482x |
| MSP430, MSPM0 | MAX22513/5 |
| NXP LPXxx, S32xx, i.MX | MAX22516/22 |
| PSoC | RH4Z2501 |
| RL78/xxx | SN65HVD101 |
| STM32xxx | TIOL111/112 |
| STM8L/STM8S | |
| | |
| ... and many more | |

## 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

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