



Data Sheet CODESYS IO-Link SL

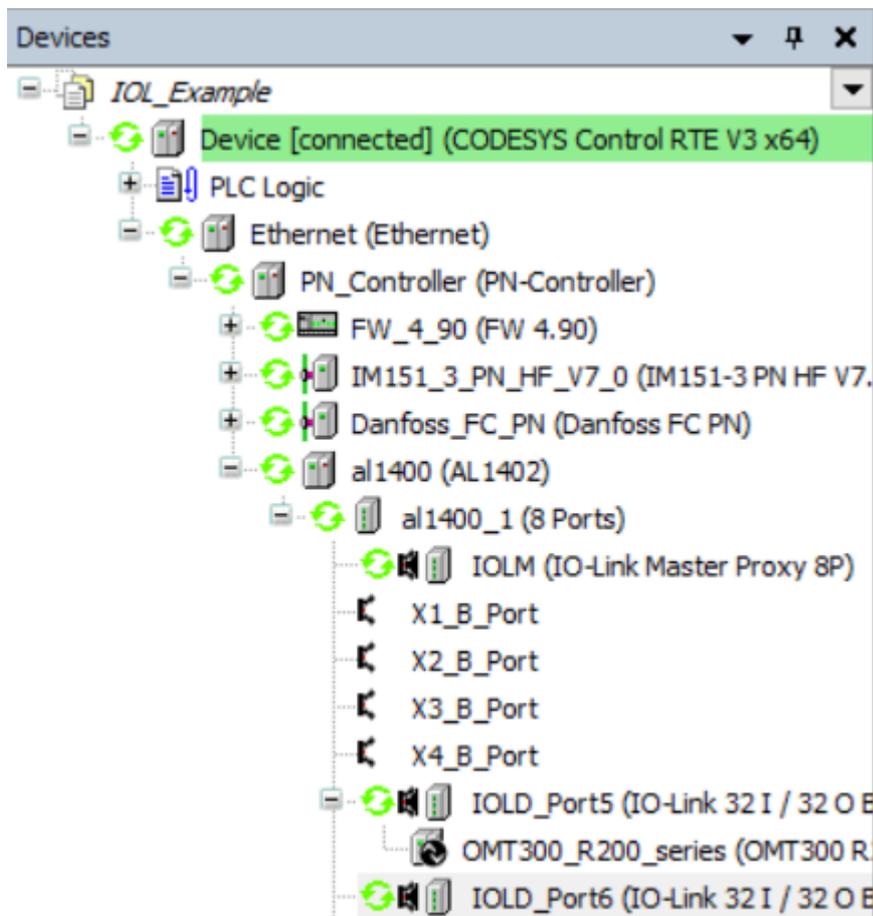
CODESYS IO-Link SL allows CODESYS users to easily integrate IO-Link devices into CODESYS projects.

Product description

CODESYS IO-Link SL enables the integration of IO-Link devices into CODESYS projects with EtherCAT and PROFINET bus systems. IO-Link sensors are recognized in the device scan and can be imported directly into the project. Configurators for parameterizing IO-Link devices are provided. The parameters of the IO-Link devices are stored in the CODESYS project. The data of the IO-Link sensors/actuators is processed with the information from the *IODD.xml files.

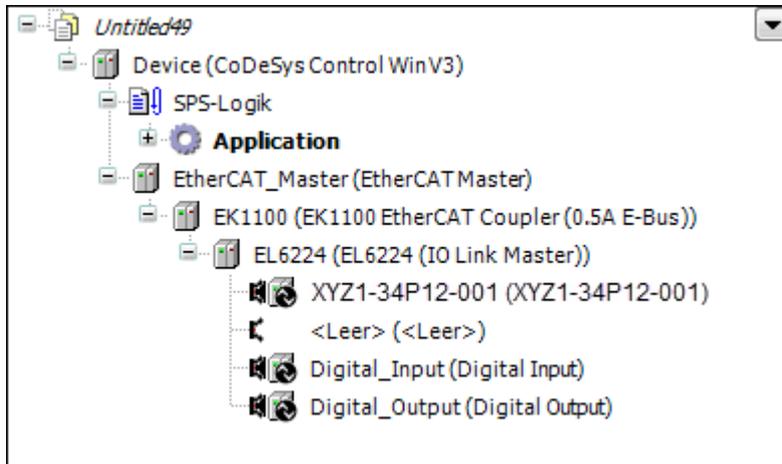
Architecture PROFINET

All PROFINET IO-Link master modules that comply with the “PROFINET IO-Link Integration - Edition 2” standard are supported. The IO-Link devices created from the IODD files are inserted below the PROFINET (“proxy”) submodules.



Architecture EtherCAT

The EL6224 gateway must be inserted into the project tree of the CODESYS Development System below the EK1100 EtherCAT slave. In case of EP6224 or AL1030 the gateway is inserted directly below the EtherCAT master



Functions

- Installation of IO-Link devices generated from *IODD.xml files
- Integration of IO-Link devices in the device tree
- Automatic detection (Scan + Import to the CODESYS project) of IO-Link devices
- Parameterization of the IO-Link devices in CODESYS, no manufacturer-specific tools (PDCT) necessary.
- Processing of IO data with descriptions from *IODD.xml files.
- Mapping of project variables to the inputs and outputs of the IO-Link device
- Extensive library of IO-Link Function Blocks, e.g. for diagnosis or for IO-Link devices according to IOL Smart Sensor Profile
- Dialogue for configuring the EL6224/EP6224/AL1030 settings (EtherCAT)

Parameter Page

The IO-Link Parameter page with read / write services:

Name	Value	Unit	r/w	Description
Operation Parameter				
Switching Signal Channel 1				
SP1	250.0	mm	rw	setpoint 1 value for switching signal channel
SP2	150.0	mm	rw	setpoint 2 value for switching signal channel
Logic	High active - Not Inverted		rw	defines the logical behaviour of the switching signal
Mode	Window		rw	defines the evaluation behaviour of the switching sig
Hysteresis	Standard		rw	a higher hysteresis may help to increase stability in c
SSC1 Config - SP Offset	30.0	mm	rw	the setpoint offset defines the switchpoint of the ser
Switching Signal Channel 2				
Teach-In				

General information

Supplier:

CODESYS GmbH
 Memminger Strasse 151
 87439 Kempten
 Germany

Support:

Technical support is not included with this product. To receive technical support, please purchase a CODESYS Support Ticket.

<https://support.codesys.com>

Item:

CODESYS IO-Link Master SL

Item number:

2303000008

Sales/Source of supply:

CODESYS Store
<https://store.codesys.com>

Included in delivery:

- License key

System requirements and restrictions

Programming System	CODESYS Development System V3.5.17.0 or higher
Runtime System	CODESYS Control V3.5.12.0 or higher
Supported Platforms/ Devices	Note: Use the project "Device Reader" to find out the supported features of your device. "Device Reader" is available for free in the CODESYS Store.
Additional Requirements	<ul style="list-style-type: none"> • CODESYS EtherCAT Master or CODESYS PROFINET Controller • WIBU Codemeter support
Restrictions	-
Licensing	



Single device license: The license can be used on the target device/PLC on which the CODESYS runtime system is installed.

Licenses are activated on a software-based license container (soft container), which is permanently connected to the controller. Alternatively, the license can be stored on a CODESYS Key (USB dongle). By replugging the CODESYS Key, the license can be used on any other controller.

Required Accessories

- EtherCAT_IO-Link Terminal EL/EP6224, EP6228 (Beckhoff)
 - EtherCAT_IO-Link Terminal AL1030, AL133x, AL1930, AL143x (IFM)
 - PROFINET IO-Link Master
 - Optional: CODESYS Key
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Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the current online version of this document applies.

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