Data Sheet CODESYS Control for IOT2000 SL

This product allows users to program the Siemens SIMATIC IOT-Gateway by using the free CODESYS Development System (V3).

Product description

CODESYS Control for IOT2000 SL is a SoftPLC-based on CODESYS V3 for the Siemens SIMATIC IOT2000 family (for example, IOT2020, IOT2040). After installation of the runtime environment, the PLC acts as a full-featured CODESYS controller, which can be engineered with the CODESYS Development System (V3).

- Download of the product “CODESYS Control for IOT2000 SL” from the CODESYS Store (http://store.codesys.com)
- Deploy tool, for installation of the CODESYS SoftPLC on the Siemens SIMATIC IOT device (http://www.siemens.com)

Benefits

- Enhancement of the device to the full-featured CODESYS controller
- Application creation with the free CODESYS Development System
- Easy programming in IEC 61131-3 languages
- For PLCs in building, factory, and process automation, as well as training
- Efficient engineering with the add-on products of the CODESYS Professional Developer Edition
- Extendable runtime system (for example, MQTT, MySQL, and MsSQL from the CODESYS Store)

Detailed information can be found in the CODESYS Online Help.

Interfaces

- CODESYS OPC UA Server, as full version for data exchange.

Visualization

- CODESYS WebVisu, is included as full version in the delivery of the runtime package.

SL Extension

The SL Extension Package is included in the Runtime Package and offers additional functions:

- Integration of existing C code
- Implementation of external functions

- Support of start/stop switches
- Usage of local I/Os
- Use of external event tasks
- Connect persistent memories (Retains)

Fieldbus support

With the delivery of the Runtime Package the following fieldbuses are supported:

- CODESYS EtherCAT Master
- CODESYS EtherNet/IP Scanner / Adapter
- CODESYS Modbus TCP Master / Slave
- CODESYS Modbus Serial Master / Slave
- CODESYS PROFINET Controller / Device

Product options

Further products can be licensed for a fee:

- CODESYS KNX SL

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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 Control for IOT2000 SL

Item number:

2302000026

Sales/Source of supply:

CODESYS Store
https://store.codesys.com

Included in delivery:

- Package for the CODESYS Development System including CODESYS Control, license agreement, online help and device description
- License Key

System requirements and restrictions

Programming System	CODESYS Development System V3.5.17.0 or higher
Supported Platforms/ Devices	Siemens SIMATIC IOT family Note: Use the tool “Device Reader” to find out the supported features of your device (free of charge component of CODESYS Development System).
Additional Requirements	See license agreement. After installation, the user is responsible for implementing and checking the functionality of the combination of the software package and hardware according to device specifications. • Siemens Yocto V2.1 and later

	• Dynamic libraries needed by the CODESYS Control Runtime binary: ◦ libm.so.6 ◦ libpthread.so.0 ◦ libdl.so.2 ◦ librt.so.1 ◦ libc.so.6 ◦ libgcc_s.so.1
Restrictions	• Protocols for telecontrol technology are not supported. • Not released for use in containers or virtual machines (VMs)!
Licensing	Single Device License  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) that is permanently connected to the controller. Note: In demo mode, the software runs for two hours without a license. After that, a manual restart is required.
Required Accessories	-

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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