CODESYS **STORE**

Data Sheet CODESYS Control for Raspberry Pi SL

CODESYS Control for Raspberry Pi SL is an adapted CODESYS Control runtime system for the Raspberry Pi (PLC extension), for non-commercial use.

Product description

Licensing:

Single Device License

CODESYS Control for Raspberry Pi SL contains a CODESYS Control application for all Raspberry Pi, including the Compute Module (see http://www.raspberrypi.org/) as well as the capability to use the extension modules and several devices/breakouts with SPI, I²C or 1-wire communication interface.

This product can be installed with the included CODESYS Deploy Tool plug-in via the CODESYS Development System on a Linux distribution Raspbian. After each restart the runtime system will be started automatically. If no valid full license can be found, CODESYS Control runs for two hours without functional limitations before shut down.

Detailed information can be found in the Online Help.

Interfaces

The CODESYS device description does support the following components:

- CODESYS OPC UA Server, as full version for data exchange
- CANopen via EL6751 Gateway
- Raspberry Pi Camera
- I²C interface, with SenseHat, SRF02, Adafruit PWM, MPU6050 Gyro, MPU9150 Gyro, AK8975 Compass
- SPI interface, with MCP3008, MCP23S17, PiFace Digital, PiFace Control Display
- One-wire interface, with DS20B18
- GPIO

Visualization

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

Fieldbus support

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

- CODESYS CANopen Manager / Device
- CODESYS EtherCAT Master
- CODESYS EtherNet/IP Scanner / Adapter
- CODESYS J1939
- 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 BACnet SL
- CODESYS KNX SL
- CODESYS Redundancy SL
- CODESYS SoftMotion SL
- CODESYS SoftMotion CNC+Robotics SL

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General information

Supplier:

CODESYS GmbH

Memminger Strasse 151

87439 Kempten

Germany

Support:

https://support.codesys.com

Item:

CODESYS Control for Raspberry Pi SL

Item number:

2302000009

Sales:

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
- CODESYS Deploy Tool (AddOn for the CODESYS Development System)

System requirements and restrictions

Programming System	CODESYS Development System V3.5.17.0 or higher
Runtime System	CODESYS Control V4.1.0.0 based on CODESYS Runtime Toolkit V3.5.17.0
Supported Platforms/ Devices	All Pi models 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	- The CODESYS Control requires a network interface (LAN, WLAN), especially with the Raspberry Pi Compute Module and the Raspberry Pi ZERO. - If the product is used for industrial purposes, it is the responsibility of the system manufacturer to ensure compliance with the necessary specifications. - The operating system "Raspbian" (from version 9 "Stretch") https://www.raspberrypi.org/downloads/ - 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	The combination of Raspberry Pi and a CODESYS Runtime is for private use, test and teaching purposes. Commercial use is not permitted.

Licensing	**Private license**. More details can be found in the License Agreement.
	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
	Note: In demo mode, the software runs for two hours without a license. After that, a manual restart is required.
Required Accessories	• SD-card (minimum 4GB) • Optional: CODESYS Key

Note: Not all CODESYS features are available in all territories. For more information on geographic restrictions, please contact sales@codesys.com.
Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the current online version of this document applies.