



STORE

Data Sheet CODESYS Control for Raspberry Pi SL

CODESYS Control for Raspberry Pi SL is an adapted CODESYS Control runtime system for Raspberry Pi (PLC extension).

Product Description

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 Raspberry PiFace Digital, Raspberry Pi Camera and several devices/breakouts with SPI, I²C or 1-wire communication interface.

Range of Functions

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.

This product supports the following functionalities:

Produkt	MODBUS-TCP Master / Slave	MODBUS-RTU Master / Slave	EtherNet/IP Scanner / Adapter	PROFINET Controller / Device	EtherCAT Master	CANopen Master/Slave	CAN/CANopen Master / Slave	J1939
Raspberry Pi	✓	✓	✓	✓	✓	✓	✓	✓

This product supports the following additional features:

- CODESYS WebVisu
- CODESYS SoftMotion CNC
- CODESYS OPC/UA Server
- CANopen via EL6751 Gateway

This product consists of:

- Debian package with CODESYS Control for Raspberry Pi
- CODESYS Deploy Tool Plug-in for the CODESYS Development System
- CODESYS device description files for Raspberry Pi, Raspberry PiFace Digital, Raspberry PiFace Control&Display, Raspberry Pi Camera, several devices/breakouts with I²C (SRF02, Adafruit PWM, MPU6050, MPU9150, AK8975), SPI (MCP3008, MCP23S17) or 1-wire (DS18B20) communication interface

The complete installation is described in the document „First Steps“ (part of the CODESYS Package). Details to the licensing process is shown on our YouTube channel: <https://www.youtube.com/watch?v=eTr9oO9OAY8>

General Information

Manufacturer: 3S-Smart Software Solutions GmbH
 Memminger Straße 151
 87439 Kempten
 Deutschland

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

System requirements and restrictions

Programming System	CODESYS Development System V3.5.8.0 or higher
Runtime System	-
Supported Platforms/ Devices	<ul style="list-style-type: none"> • Pi Model B / B+, Pi2 Model B from CODESYS V3.5.8.0 or later • Pi3 Model B from CODESYS V3.5.9.10 or later • All models from CODESYS V3.5.11.0 or later <p>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.</p>
Additional Requirements	<ul style="list-style-type: none"> • 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 „Raspian“ <p>(https://www.raspberrypi.org/downloads/)</p>
Restrictions	<ul style="list-style-type: none"> • The combination of Raspberry Pi and a CODESYS Runtime is primarily intended for test and teaching purposes. • The runtime system does not have real-time behavior. Its jitter depends on many factors, especially on parallel executed Linux applications, and is ideally approximately 50 µs with maximum values of approximately 400 µs.
Licensing	<p>License activation optional on CODESYS Runtime Key or CODESYS Soft Key (free of charge component of CODESYS Controls)</p> <p>Note: Without license, the product is executable as a demo version for two hours at a time; with manual controller restart.</p>
Required Accessories	<ul style="list-style-type: none"> • SD-card (minimum 4GB) • Optional: CODESYS Runtime 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.