



CODESYS Control for Linux SL

CODESYS Control Linux SL is an IEC 61131-3-compliant SoftPLC for PC-based industrial controllers running on Linux with soft real-time properties.

Product description

CODESYS Control Linux SL converts an industrial PC into a high-performance PLC – scalable to nearly any degree by the PC performance and choice of application-based license. The system is suitable for applications without hard demands on the real-time behavior.

Benefits

The runtime system supports numerous I/O interfaces, such as discrete inputs and outputs or fieldbus adapters, as well as integrated IEC 61131-3 protocol stacks. The fieldbuses are configured directly in the CODESYS Development System without using any additional tools.

- Communication with the CODESYS Development System, also for debugging the running application
- Execution of controller functions and generation of graphical user interfaces
- Operation of I/O systems and fieldbuses

Detailed information can be found in the [CODESYS Online Help](#).

Interfaces

- CODESYS OPC UA Server, extent of use depends on the application-based license used.

Visualization

- CODESYS WebVisu, extent of use depends on the application-based license used.

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 CANopen Manager / Device
- CODESYS EtherCAT Master
- CODESYS EtherNet/IP Scanner / Adapter
- CODESYS Modbus TCP Master / Slave
- CODESYS Modbus Serial Master / Slave
- CODESYS PROFIBUS Master
- 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
- CODESYS SoftMotion Light SL
- CODESYS DNP3

-

General information

Supplier:

CODESYS GmbH
 Memminger Strasse 151
 87439 Kempten
 Germany

Support:

This product includes a free addition to an otherwise paid support entitlement of one hour of support.

The redemption must be made within 1 year from the date of purchase. After this time, the support entitlement expires.

<https://support.codesys.com>

Item:

CODESYS Control for Linux SL

Item number:

2302000005

Sales/Source of supply:


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

Included in delivery:

- Setup.deb (64-bit)
- Setup.rpm (64 Bit)
- License key

System requirements and restrictions

Programming System	CODESYS Development System V3.5.17.0 or higher
Supported platforms and devices	<p>Runs on Debian-, RedHat-based Linux (64-bit)</p> <p>Note: Use the tool "Device Reader" to find out the supported features of your device (free of charge component of CODESYS Development System).</p> <p>Supported Hilscher hardware:</p> <ul style="list-style-type: none"> • PROFIBUS Master: Hilscher CIFX or netX 100/500 controller with firmware 2.8.0.0

	<ul style="list-style-type: none"> • PROFINET Controller: Hilscher CIFX or netX 100/500 controller with firmware 3.x
Additional requirements	<ul style="list-style-type: none"> • A SSH server must be running on the Linux system, to install the CODESYS runtime with the CODESYS Development System. • Dynamic libraries needed by the CODESYS Control Runtime binary: <ul style="list-style-type: none"> ◦ libm.so.6 ◦ libpthread.so.0 ◦ libdl.so.2 ◦ librt.so.1 ◦ libc.so.6 ◦ libgcc_s.so.1 • Third-party requirements: - libc >= 2.27 (required by CodeMeter Runtime)
Restrictions	<p>IEC applications are bound to one CPU core.</p> <p>Other distributions may also be used at your discretion but are not part of the product release and related tests.</p> <p>Not released for use in containers or virtual machines (VMs)!</p>
Licensing	<div style="text-align: center;">  <p>ABL</p> </div> <p>Application based license: The CODESYS Control SL runtime system can be licensed with an application-based license.</p> <p>The license is activated on a software-based license container (soft container) that is permanently bound to the device. Alternatively, the license can be stored on a CODESYS key (USB dongle).</p> <p>Note: In demo mode, the software runs for two hours without a license. After that, a manual restart is required.</p>
Required Accessories	Optional: CODESYS Key

Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the current online version of this document applies.

Creation date: 2026-02-24