



## Data Sheet CODESYS Control for PLCnext SL

CODESYS Control for PLCnext SL is an adapted CODESYS Control runtime system for the Phoenix PLCnext controllers AXC F 2152 and AXC F 1152.

### Product description

CODESYS Control for PLCnext SL is a CODESYS Control runtime system for the Phoenix PLCnext Controllers AXC F 2152 and AXC F 1152 (see <https://www.phoenixcontact.com/>). The package includes the option to use the AXIO extension modules.

To install the product on the Linux OS via the CODESYS Development System, use the the included CODESYS Deploy Tool plug-in. 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.

After installing the runtime environment, the PLCnext controller can be programmed as a PLC with the CODESYS Development System.

### Benefits

- Suitable for controlling tasks in all automation fields
- Comprehensive engineering solution with the free CODESYS Development System (V3), including extensive visualization options
- Efficient engineering with the products of the CODESYS Professional Developer Edition (code management via link to Apache Subversion, static code analysis, runtime measurement on the PLC, comprehensive test automation, methodical application development with UML diagrams)
- Compatible with additional add-ons and products from the CODESYS Store

### Interfaces

The runtime package includes the following interfaces:

- Axioline-I/O-System for AXIO I/O-Module support
- CODESYS OPC UA Server

### Visualization

The runtime package includes the following visualization products:

- CODESYS WebVisu

## **Fieldbus support**

The runtime package includes the following fieldbus products:

- CODESYS CANopen Master / Slave
- CODESYS EtherCAT Master
- CODESYS EtherNet/IP Scanner / Adapter
- CODESYS Modbus TCP Master / Slave
- CODESYS Modbus Serial Master / Slave
- CODESYS J1939
- CODESYS PROFINET Controller / Device

## **Options**

The runtime package can be extended by the following products:

- CODESYS Control for PLCnext Multicore SL
- CODESYS BACnet SL
- CODESYS KNX SL
- CODESYS Redundancy SL
- CODESYS SoftMotion
- CODESYS SoftMotion CNC + Robotics

## 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 PLCnext SL

### Item number:

2302000033

### 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

<b>Programming System</b>	CODESYS Development System V3.5.17.0 or higher
<b>Supported Platforms/ Devices</b>	<ul style="list-style-type: none"> <li>• Phoenix AXC F 2152</li> <li>• Phoenix AXC F 1152</li> </ul> <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>
<b>Additional Requirements</b>	<ul style="list-style-type: none"> <li>• PLCnext Firmware:             <ul style="list-style-type: none"> <li>◦ Minimum version 2023: &gt;= 2023.0</li> <li>◦ Minimum version 2024: &gt;= 2024.0.6</li> <li>◦ only LTS versions are supported</li> </ul> </li> </ul>

- Dynamic libraries required 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**

- Ethernet ports are not physically separated (integrated switch)
- Not released for use in containers or virtual machines (VMs)!

---

**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.

Note: In demo mode, the software runs for two hours without a license. After that, a manual restart is required.

---

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

Creation date: 2024-08-01