CODESYS Control RTE SL

CODESYS Control RTE SL is a real-time software PLC for PC-based industrial controllers under Windows - programmable with the IEC 61131-3 development System CODESYS.

Product description

The product CODESYS Control RTE SL is a real-time software PLC for PC-based industrial controllers under Windows. The runtime system has its own real time kernel: deterministic behavior with jitter values in the µs region without additional hardware components or operating system extensions.

Interfaces

- CODESYS OPC UA Server [1)]
- The following CAN-PCI cards are supported:
  - Peak PCI: PCIe, MiniPCIe
  - Ixxat: SJA1000 (PCI card)
  - Automata: all PCI cards (1- and 2-channel)
  - Innodisk: PCIe CAN adapter
  - HMS: passive CAN cards

[1)] The performance of a local OPC UA connection from the RTE to an OPC UA client on the same host system is severely limited and cannot be further optimized due to the system.

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 PROFIBUS Master
- CODESYS PROFINET Controller / Device
- CODESYS Sercos III Master

Product options

The product can be extended by the following **chargeable** options:

- CODESYS SoftMotion SL

- CODESYS SoftMotion CNC+Robotics SL
- CODESYS WebVisu SL
- CODESYS TargetVisu SL

Detailed information can be found in the CODESYS Online Help.

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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 %period% from the date of purchase. After this time, the support entitlement expires.

https://support.codesys.com

Item:

CODESYS Control RTE SL

Item number:

2302000000

Sales/Source of supply:

CODESYS Store
https://store.codesys.com

Included in delivery:

.zip file with Setup.exe (32/64 bit)

System requirements and restrictions

Programming System	CODESYS Development System V3.5.17.20 or higher
Supported Platforms/ Devices	OS: Windows 10 / 11 / IoT Enterprise : 32Bit / 64Bit : 2 or more CPU-cores The versions maintained by Microsoft are supported. 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	-
Restrictions	The following CAN-PCI cards are supported: • Peak PCI: PCIe, MiniPCIe (SJA1000-based) • Ixxat: SJA1000 (PCI card) • Automata: all PCI cards (1 and 2 channel)

	• Innodisk: PCIe CAN adapter • HMS: passive CAN cards The following Ethernet chipsets are supported: • Realtek • Intel (Pro1000 compatible) • Intel i225/i226 (2,5G) Sercos III Master: only 32bit supported Following Hilscher hardware is supported: • PROFIBUS Master: Hilscher CIFX or netX 100/500 controller with firmware 2.8.0.0 • PROFINET Controller: Hilscher CIFX or netX 100/500 controller with firmware 3.x 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. 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	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.

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