

PLCNEXT ENGINEER - Programming software



1046008

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Engineering software platform for Phoenix Contact automation controllers. PLCnext Engineer is IEC 61131-3-compliant and is available free of charge under Downloads. Its functionality can be extended using paid add-ins. To do this, open the license configurator via the "Configure" button.

Your advantages

- Secure programming, certified in accordance with IEC 61508
- Security by design, with the controllers of the PLCnext Control family
- Uniform operation worldwide, thanks to programming according to IEC 61131
- One software program for all engineering tasks
- Less work and training involved, thanks to the optimized user interface
- Time and cost savings, thanks to fully integrated programming in a single interface
- Flexible engineering, thanks to the integration of individual function add-ins in the free basic version
- Simplified engineering process, thanks to the use of automation modules and object-oriented programming

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Technical data

Product properties

Product type	Programming
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System properties

Type of software	On-premise
Intended use for the software	Engineering software for controllers

License information

Type of license	Single-user license
	Network license
	Freeware

Functionality

Basic functions	Programming an automation system in accordance with IEC 61131-3
	Planning an automation system
	Setting of hardware and network parameters
	Network-oriented or fully graphical programming
	Web-based visualization based on open standards such as HTML5 and JavaScript
Expanded functionality	Control cockpit for diagnostics
	Integrated visualization editor
Integrated function	Analysis
	Evaluation
	Data acquisition
	Programming
	Configuration
	Diagnostics
	Maintenance
	Communication
Functional safety	
Programming languages supported	Function block diagram (FBD)
	Ladder diagram (LD)
	Structured text (ST)
	Symbolic flowchart (SFC)
Configuration	PROFINET (GSDML version 2.2 or later), INTERBUS, IO-Link revision 1.1
Associated hardware	Phoenix Contact control
Supported controllers	AXC F 1152
	AXC F 2152
	AXC F 3152
	RFC 4072S
	RFC 4072R

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	BPC 9102S
	EPC 1502
	EPC 1522

System requirements

Operating equipment	Keyboard, mouse
Operating system	Windows [®] 10 (64-bit) as of build 1709, Windows [®] 11 as of build 22621.963
Processor	Min. Intel [®] Core™ i5
Hard disk memory	min. 2 GByte
RAM	min. 8 GByte
Supported browsers	Microsoft Edge
Languages supported	German, English, Chinese
Screen resolution	HD (1920 x 1080)

Add-in (optional)

PLCnext ENG ACI	ACI (Application Control Interface) for controlling the PLCnext Engineer software remotely from external high-level language applications
PLCnext ENG MV	Integrated viewer for displaying MATLAB [®] Simulink [®] models that can be processed on a PLCnext Technology controller
PLCnext ENG SAFETY	Editor (TÜV-certified) for programming safety-related user applications and for configuring and starting up PROFIsafe devices on safety-oriented controllers with PLCnext Technology.
PLCnext ENG SFC	Editor for programming the IEC 61131-3-compliant SFC (Sequential Function Chart) with integrated troubleshooting
PLCnext ENG HMI Generator	HMI Generator for generating a complete visualization based on a user project, without any manual effort. The project instances can be linked and placed via an XML configuration with HMI symbols.
PLCnext ENG SAFE-CFUNC	This add-in can be used to create C function libraries and provide them with certificates. These libraries can be sent to a safety controller, without having to update the controller's firmware.
PLCnext ENG ETH TOP VIEW	This add-in makes it possible to read in and display the connected Ethernet topology. The devices together with the network addresses, ports, and connection types can be displayed in various views.

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