TECH
Education
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TECHNICAL DATA

Eduline PLCnext Technology Starterkit
(item no. 1367512)

DIRECT ENTRY INTO QUALIFICATION FOR INDUSTRY 4.0

The Eduline PLCnext Technology Starter Kit combines an entry-level teaching board with a corresponding textbook including exercises and a simulation. The linking of theoretical fundamentals with practice enables a coherent introduction to automation technology.

Product features:

- Use as desktop device
- Textbook in German language
- 16 digital and 4 analog inputs as well as 16 digital outputs available
- 4 digital inputs are pre-wired with push buttons
- 1 analog input is pre-wired with a slider (0 - 10 V)
- PLCnext Engineer from Phoenix Contact enables programming in IEC 61131 languages as well as in high-level languages such as C/C++ or C#
- 24 V plug-in power supply 230 V AC/ 24 V DC

Technical properties:

- Controller AXC F2152
- Smart Elements module rack
- Smart Elements digital module AXL SE DO16/1
- Smart Elements digital module AXL SE DI16/1
- Smart Elements analog module AXL SE AI4 U 0-10
- Dimensions: (H x W x D) 260mm x 360 mm x 180 mm
- Weight: 2.3 kg

Scope of supply:

The bundle includes:

- PLCnext Control AXC F 2152
- I/O-Module AXL Smart Elements DI16/DO16/AI4
- Sliding potentiometer
- Push button
- Plug-in power supply unit
- patch cable

Plus

- Accompanying educational material (textbook incl. link to simulation file):
  The textbook contains theory chapters on the topics Industry 4.0 and PLCnext Technology.

For learning practice, sample tasks focusing on OT and IT, learning control questions and practical examples from industry are included.

- Factory IO project of a simulated sorting plant:
  The Factory IO project enables the simulation of a simple sorting system. In the simulation, different boxes are fed in via a conveyor belt. The workpieces are then detected by an image recognition sensor and sorted according to a specific logic. The simulation project uses OPC UA to create a connection between the simulation environment and the control device. The project is suitable for practice with IEC 61131 programming languages as well as C++ and C#. The simulation file can be downloaded from the website after purchasing the bundle.
  A Factory IO license is required to use the simulation.
- Tote bag

Complementary components
(Must be purchased additionally)

SD Card:
„Eduline PLCnext Technology Starterkit IIOT Booster" (item no. 1378495) for pre-configuration

The Eduline-specific SD card **„Eduline PLCnext Technology Starterkit IIOT Booster" (item no. 1378495)** contains additional Industry 4.0 features for pre-configuration of the Eduline PLCnext Technology Starterkit.

The SD card provides a direct introduction to programming in the classroom. If the card is removed the device is back in its original state.

The SD card contains the pre-configuration for:

- Node-RED, incl. nodes für OPC UA, REST, Dashboard
- MQTT (Mosquitto, MQTT Client Library)
- Example project

Software licenses:

Different add-ins are available for PLCnext Engineer.
Single user or network licenses:

- SFC Editor
- Application Control Interface
- Matlab Simulink Model Viewer
- Safety Programming