

## TECHNICAL DATA

### **EduLine PLCnext Technology Board**

**(item no. 1046674)**

#### **WE BRING INDUSTRY 4.0 INTO TEACHING**

The practical EduLine PLCnext Technology Board is suitable for learning skills in automation technology with a focus on PLC programming.

The system board can be used as a module as well as a stand-alone trainer.

#### **Product features:**

- Suitable for use in H-profile systems (Din A4 format) or as desktop device
- Transparent rear casing provides a direct view of the wiring
- Depending on the application, up to 16 digital inputs can be controlled via toggle switches and up to 16 digital outputs are available as LEDs.
- A 0 to 10 V analog input signal can be simulated via a rotary potentiometer
- LED bar graph for simulation of an analog output signal
- An additional analog input and output signal can be connected via the existing safety sockets
- PLCnext Technology from Phoenix Contact enables programming in the IEC 61131 languages as well as in high-level languages such as C/C++ and C#

#### **Technical properties:**

- Wiring:
  - 8 DIO (toggle switch and LED)
  - 1 AIO (rotary potentiometer and LED bar graph) at EDU AXC F 2152,
  - plus 1 AIO via female connectors for free disposal,
  - 8 DIO (toggle switch and LED) to bus coupler AXL F BK PN
- Can be networked via Ethernet, two additional RJ45 jacks are available depending on the application
- Programmable with PLCnext Engineer. The software PLCnext ENGINEER (item no. 1046008) is available as a free download at [phoenixcontact.com](http://phoenixcontact.com)
- Power supply via IEC connector on board surface 230 V AC, transmission of module voltage of 24 V DC via 4 mm safety sockets as well as M12 interface possible
- Dimensions: 345 mm x 297 mm x 103 mm (DIN A4-height)
- Weight: 3,9 kg

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## Scope of supply:

The switching device combination includes:

- Power supply
- Ethernet cable
- Training board incl. Industrial components
  - PLCnext Control AXC F 2152
  - 3x I/O modules
  - Bus coupler
  - Rotary potentiometer
  - LED - Bar Graph

## Complementary components (Must be purchased additionally)

### SD Card:

**„Eduline PLCnext Technology Board IIOT Booster“ (item no. 1380422) for pre-configuration**

Die Eduline-specific SD Card „**Eduline PLCnext Technology Board IIOT Booster“ (Art. 1380422)** contains additional Industry 4.0 features for pre-configuration of the Eduline PLCnext Technology Board.

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 for 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