

EduTrainer® Universal preferred versions Laboratory: A4/A4 rack with SIMATIC® S7-1500 and 19" simulation modules



The ultimate in power and efficiency

The SIMATIC S7-1500 controller family represents the new controller generation in the TIA portal and a milestone in automation. It delivers maximum performance and user-friendliness for medium and high-end applications in machine and plant automation.

EduTrainer® Universal with:

CPU S7-1512C-1PN

- Main memory: 250 KB for program and 1 MB for data
- Memory card included
- Interface: PROFINET IRT with 2-port switch

Inputs/outputs:

- 32 digital inputs (24 V DC)
- 32 digital outputs (24 V DC/0.5A)
- 5x analog inputs, 4 x U/I, 1 x R/RTD, 16-bit resolution
- 2x analog outputs, 2 x U/I, 16-bit resolution

CPU S7-1516-3PN/DP

- Main memory: 1 MB for program and 5 MB for data
- Memory card included
- Interface 1: PROFINET IRT with 2-port switch
- Interface 2: Ethernet
- Interface 3: PROFIBUS, 10 ns bit performance

Inputs/outputs:

- 32 digital inputs (24 V DC)
- 32 digital outputs (24 V DC/0.5A)
- 8x analog inputs, 8 x U/I/RTD/TC, 16-bit resolution
- 4x analog outputs, 4 x U/I, 16-bit resolution

CPU S7-1516F-3PN/DP

- Main memory: 1.5 MB for program and 5 MB for data
- Memory card included
- Interface 1: PROFINET IRT with 2 port switch
- Interface 2: Ethernet
- Interface 3: PROFIBUS, 10 ns bit performance

Inputs/outputs:

- 32 digital inputs (24 V DC)
- 32 digital outputs (24 V DC/0.5 A)
- 8x analog inputs, 8 x U/I/RTD/TC, 16-bit resolution
- 4x analog outputs, 4 x U/I, 16-bit resolution

The mounting system

- EduTrainer® Universal, size 1 (W x H) 305 mm x 300 mm
 - Can be placed on a desk or in an MPS® station
 - Stable, powder-coated, sheet-steel mounting system
 - Integrated power supply unit, AC 110/230 V/DC 24 V, 4 A
 - 19" module 16DIN (12 HP), 16 digital inputs on 4 mm safety sockets and 16 switches/pushbuttons for signal simulation
 - 19" module 16DOUT (12 HP), 16 digital outputs on 4 mm safety sockets
 - 19" module 4AIN/2AOUT (12 HP), analog processing 4 analog inputs on 4 mm safety sockets can be switched to simulation via potentiometer and 2 analog outputs on 4 mm safety sockets
 - 19" module 24 V/0 V (9 HP), 8 x 4 mm safety sockets, red for 24 V distribution, 8 x 4 mm safety sockets, blue for 0 V distribution
 - 19" module simulation plate with 2x SysLink plug connector for MPS® station and control panel, each with 8 digital inputs and 8 digital outputs and 1x Sub-D 15-pin plug connector with 4 analog inputs and 2 analog outputs; emergency stop jumper to connect a safety circuit for disconnecting 8 digital outputs.
- Special license rules apply for schools and educational institutes in the commercial sector.

Notes

Order no. 8065595, 8042524 and 8034574 are based on Siemens SCE Trainer Packages and each one contains one EduTrainer® including programming cable (Ethernet cable) and programming software STEP 7 TIA portal. When Siemens updates these Trainer Packages, the controllers are replaced by successor models. Subject to technical implementation.

Recommendations for accessories, media and extensions

- I/O data cable with SysLink connectors (IEEE 488) (Order no. 34031)
- Analog cable, parallel (Order no. 529141)
- Safety laboratory cable, 3 m (Order no. 571817)
- IEC power cable 90°
- Analog cable, crossover (Order no. 533039)