

Siemens Automation Cooperates with Education (SCE)

Teaching made easy

The SCE program offers a system for sustainable educational support which is unique worldwide.

As a technology leader, we support educational and research & development institutions in the field of automation and drive technology with our industrial know-how and specific services on the way to Industry 4.0.

Overview of SCE services

- Learning/training documents for classes and individual study
- Trainer Packages for practice-oriented education
- Courses for conveying up-to-date technical knowledge
- Support for your projects/technical books
- Partnerships with educators, producers of learning systems and WorldSkills
- Information portal for quick access to all SCE offers



Digitalization is changing our world quickly and dramatically

Digitalization



Involves a huge number of new possibilities/challenges

Enables industrial mass production for personalized products

Requires new employee competencies

Challenges for education and teaching



*Keep pace with innovation, e.g.
convey Industry 4.0 knowledge
and additional skills*



**Siemens – as the technology leader in automation engineering –
supports educators on the way to Industry 4.0 through SCE**

Global
Industry
Partner



The SCE digitalization concept

Implemented by Vocational School 2 in Wolfsburg, Germany in a group project



Best practice: Implementation by BBS 2 Wolfsburg. Not available for purchase!

1. Virtual commissioning with the help of the digital twin using Siemens NX-MCD CAD software
2. Intuitive TIA Portal engineering of the real automation plant with SIMATIC S7-1500/ET 200SP/Rfid/SCALANCE/SINAMICS
3. Cloud connection via IOT2050 for evaluation of production data

SCE Trainer Packages for educators

SCE Trainer Packages are specially priced hardware and software packages specifically compiled for up-to-date educational content in automation and drive technology.

> 90 Trainer Packages for practice-oriented education

- Innovative hardware/software components incl. complete accessories
- Completely and functionally coordinated with one another in terms of content
- Low-cost original industrial components for classes
- Perfectly coordinated with SCE learning and training documents and aligned with teaching curriculums/content
- Innovative trends taken into account



Why do we provide SCE Trainer Packages?

Assembling individual products requires a lot of know-how and is time-consuming. We have therefore mapped the relevant configurations from practical educational use in hardware & software packages for you

Who are these Trainer Packages for?

- For research, development and educational institutions
- For didactic companies (Suppliers of Learning Systems) for integration into their didactic solution
- For industrial and initial corporate training → see [order information](#)
- For SinuTrain, there are separate approval/order processes → see [order information](#)

What should be considered when using Trainer Packages?

- The products listed may be subject to European/German and/or US export regulations.
- The [order information](#) must also be observed

SIEMENS						
SCE Trainer Packages						
Siemens Automation Cooperates with Education (SCE) 10/2021						
	Product	HW-Set	Licenses	SW Vars.	Order Number	Note
Open Source Platform	SIMATIC IOT2050 with Quad Core Processor (ARMv8-HS), 2 x Ethernet Gigabit (E-PP), 1 x RS 232/485/422, 2 x USB 2.0, RTIC, incl. 6x SIMATIC IO-Shield, SIMATIC IOT2000 Input/Output Module with 5 DO, 2 DI, 2 AE, INCL.INDO Shield for IOT2050	6			6ES7647-0BA20-0SC2	NEW O
	3rd Party IO-Shield, ICHDS-Powerfield for IOT2050					
	with 10 DI, 8 DO with PWM, 2 AI, 1 AO	1			100320	NEW O
Industrial Control	Can only be ordered from KAPTAAN media UG kaptanmedia.com@kptanmedia.com					
	SIFUS Low Voltage Devices with IO-Link	1			3TK3388-0TF00	
Engineering Software	SIMATIC TIA Portal Engineering Software STEP 7 Professional/WinCC V17	1	V17		6ES7822-1A07-4YA3	NEW O
	SIMATIC TIA Portal Engineering Software STEP 7 Professional/WinCC V17	4-29	V17		6ES7822-1B07-4YA3	NEW O
	Upgrade SIMATIC TIA Portal Engineering Software STEP 7 Professional / WinCC V17 as at 2020/09/01 to V17.1 SP1/SP2/SP3/SP4/SP5	4-29	V17		6ES7822-1A07-4YE3	NEW O
	SIMATIC TIA Portal Engineering Software STEP 7 Professional/WinCC V17 - 365 days	20	V17		6ES7822-1A07-4YA5	NEW O +
	SIMATIC TIA Portal Engineering Software incl. CertTool for STEP 7 Professional exclusively with V17	4-29	V5.4 SP1		In preparation (until 12/2021)	NEW O
	SIMATIC TIA Portal Engineering Software incl. CertTool for STEP 7 Professional exclusively with V17	20	V5.4 SP1		In preparation (until 12/2021)	NEW O +
	Upgrade SIMATIC STEP 7 Basic for ST-1200	6	V17		6ES7822-1A07-4YE5	NEW O
	SIMATIC CFC Software	12	V9.0		6ES7608-1EX08-0Y53	O
	SIMATIC CFC Software for Students - 365 days	20	V9.0		6ES7608-1EX08-0Y55	O +
	SIMATIC NET #6 S0FTNET	12	V17		6ES7195-0B01	NEW O
Process Automation	SIMATIC PCS 7	3	V9.1		6ES7608-0X08-0Y55	NEW O
	Upgrade SIMATIC PCS 7 from V8.X to V9.1	3	V9.1		6ES7608-0X08-0Y55	NEW O
	Upgrade SIMATIC PCS 7 from V9.0.2 to V9.1	3	V9.1		6ES7608-0X08-0Y55	NEW O
	SIMATIC PCS 7	6	V9.1		6ES7608-0X08-2Y53	NEW O
	SIMATIC CPU 410E Single	1			6ES7604-0JE23-0X54	NEW
SIMATIC Simulation	STOP PSU-200V 24V/24A, regulated power supply				6ES7236-7ES00-0AA0	NEW
	SIMATIC ET 200SP HA	1			6ES7604-0JE23-0X53	NEW

↗ SCE Trainer Package list

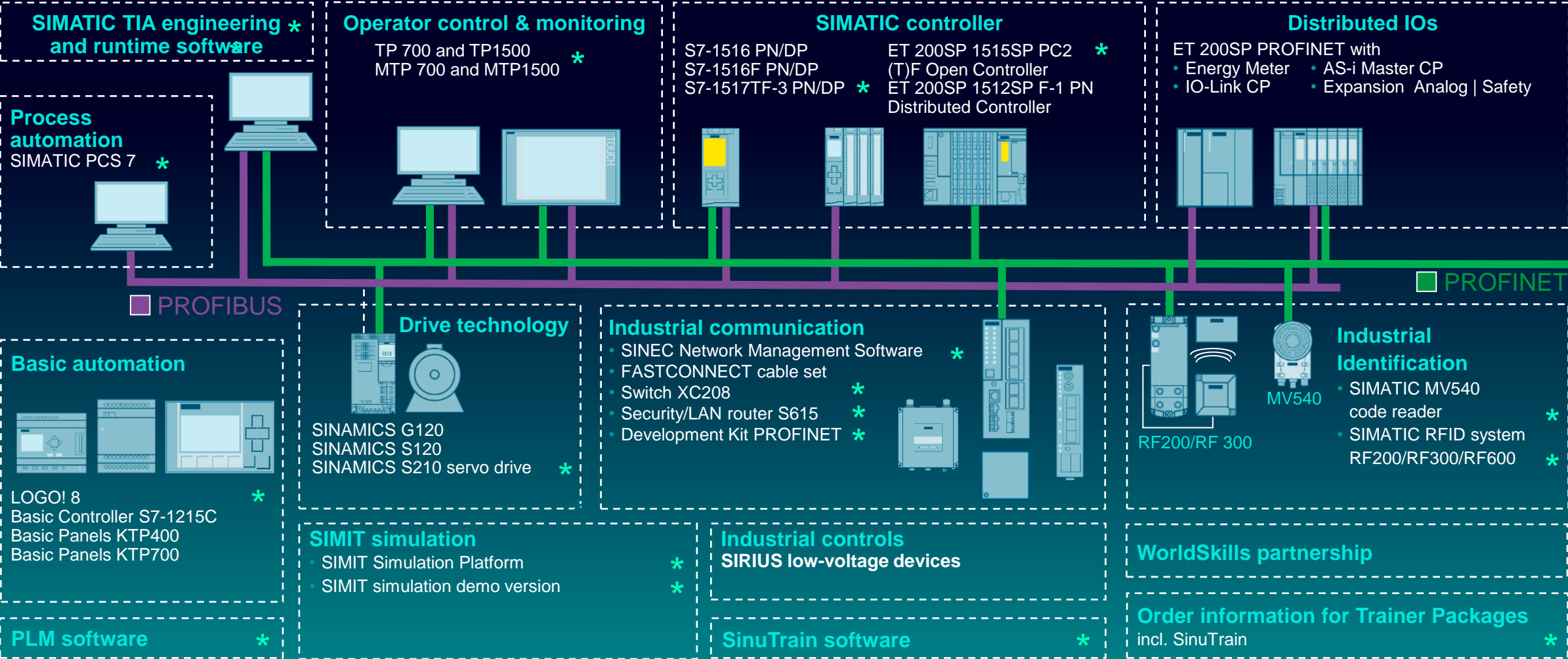


Overview of Trainer Packages

SIMATIC TIA engineering and runtime software <ul style="list-style-type: none">• Overview structure STEP 7 and HMI• SIMATIC TIA Portal Engineering STEP 7 Professional and WinCC software for training/for students• SIMOTION SCOUT software incl. CamTool for training/for students• SIMATIC CFC software for training/for students• SIMATIC NET IE Softnet	Operator control & monitoring <ul style="list-style-type: none">• MTP700/MTP1500 HMI Unified Comfort Panels• TP700/TP1500 Comfort Color Panel• SCADA system SIMATIC WinCC with options – additionally available as ASIA variant	SIMATIC controller <ul style="list-style-type: none">• ET 200SP 1515SP PC2 F Open Controller• ET 200SP 1515SP PC2 TF Open Controller• ET 200SP 1512SP F-1 PN Distributed Controller• S7-1516F PN/DP, S7-1516 PN/DP• S7-1517TF-3 PN/DP• Upgrade S7-314C-2PN/DP
Simulation <ul style="list-style-type: none">• SIMIT Simulation Platform• SIMIT demo version	Process automation <ul style="list-style-type: none">• Process Control System PCS 7 3er license/upgrade• Process control system PCS 7 6er license• Process control system PCS 7 AS CPU 410E + ET 200SP HA	Distributed IOs <ul style="list-style-type: none">• ET 200SP digital PROFINET• ET 200SP with input module• ET 200SP with communication module• ET 200SP with communication module• ET 200SP Expansion Analog <div>Energy Meter IO-Link AS-i Master Safety</div>
Basic automation <ul style="list-style-type: none">• LOGO! 8 12/24V, LOGO! 8 230V (ETHERNET)• S7-1200 Basic Controller 1215C• Upgrade STEP 7 Basic for S7-1200 package• Basic Panels KTP400 for LOGO!• Basic Panels KTP700 for S7-1200	Drive technology <ul style="list-style-type: none">• SINAMICS G120 standard drive• SINAMICS S120 servo drive• SINAMICS S210 servo drive	Industrial communication <ul style="list-style-type: none">• SINEC Network Management Software• FASTCONNECT cable set• IE SCALANCE switch XC208• IE SCALANCE Security/LAN router S615• Development Kit PROFINET
SIRIUS industrial controls	Industrial identification	WorldSkills partnership
Open source platform IOT2050		Order information for Trainer Packages incl. SinuTrain
SinuTrain software		
PLM software		

* New package

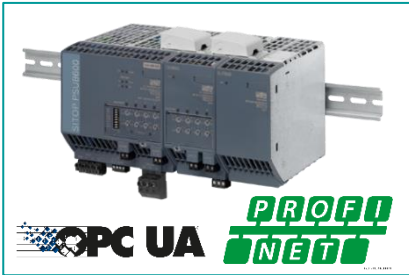
System architecture of the Trainer Packages



* New package

SITOP Power supply

Advanced



SITOP overview

[➤ PSU8600](#)

The power supply with complete TIA integration, open communication up to the cloud

Standard



[➤ PSU6200](#)

The all-round power supply for a large number of applications

Basic



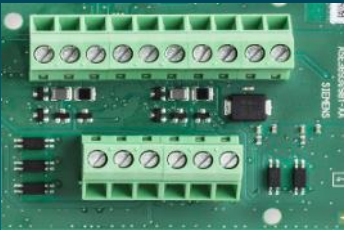
[➤ PSU100L](#)

The low-cost basic power supply

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
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- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC IOT2050

Open source platform



Product	HW sets	Licenses	SW version	Order number (MLFB)	Note
SIMATIC IOT2050 with Quad Core Processor (AM6548 HS), 2 x Ethernet Gigabit (IE/PN), 1 x RS 232/485/422, 2 x USB 2.0, RTC, incl. 6x SIMATIC IO Shields: SIMATIC IOT2000 Input/Output Module with 5 DE, 2 DA, 2 AE, ARDUINO Shield for IOT2050	6			6ES7647-0BA20-0SC2	NEW ○
3rd Party IO Shield: IKHDS-Power Shield for IOT2050 with 10 DI, 8 DO with PWM, 2 AI, 1 AO	1			100320	NEW ○
Can only be ordered from KAFTAN media UG kaftan-media.com/iot2000					

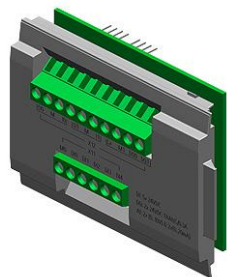
○ Relevant Information: <https://support.industry.siemens.com/cs/de/en/view/65601780> ★ Only for schools, colleges and universities

Information about SIMATIC IOT2000: see siemens.com/iot2000 and siemens.com/sce/iot2000

SIMATIC IOT2050



6 x SIMATIC IOT2050



6 x SIMATIC IoT2050
Input/Output Modul

Recommended accessories

- 6XV1870-3RH60**
Industrial Ethernet TP XP Cord RJ45/RJ45, CAT 6A, crossed TP cable 4x2, pre-assembled with 2 RJ45 connectors, length 6 m
- 6GK1950-0BB00**
Trainer Package FastConnect cable set
- 6EP3336-7SB00-3AX0**
SITOP PSU6200 24 V/20 A stabilized power supply
input: 120 - 230 V AC (110 - 240 V DC) output: 24 V DC/20 A with diagnostic interface

A MicroSDHC memory card must be present in addition

- 6 x SIMATIC IOT2050; 2x Gb Ethernet RJ45; Display port; 2x USB2.0; 16 GB eMMC; SD card slot; 24 V DC industrial power supply **6ES7647-0BA00-1YA2**
- 6 x SIMATIC IoT2000 input/output module, 5x DI 2x AI 2x DQ, ARDUINO Shield for SIMATIC IoT2040/IoT2050 **6ES7647-0KA01-0AA2**

System requirements:	None available
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	None available
Order number:	6ES7647-0BA20-0SC2

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Industrial controls

Overview



Product	HW sets	Licenses	SW version	Order number (MLFB)	Note
SIRIUS low-voltage devices with IO-Link		1		3TK3388-0TP00	

SIRIUS low-voltage devices with IO-Link (1/3)



2 x Circuit breaker
3RV2011-1BA20



2 x Contactor
3RT2015-2BB42-0CC0



3 x Contactor
3RT2015-2BB42



1 x FM IO-Link
3RA2711-2BA002



1 x FM Star-delta
3RA2816-0EW20



1 x Digital monitoring relay
3UG4841-2CA40



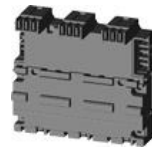
1 x Overload relay
3RB3113-4PE0



1 x Operator panel for devices with IO-link
3RA6935-0A



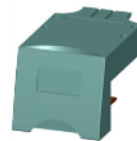
1 x 3-phase busbar
3RV2917-1A



1 x 3-phase busbar
3RV2917-4B



5 x Contactor base
3RV2917-7AA00



2 x Cable connector
3RV2917-5AA00



2 x Link module
3RA2911-2AA00



1 x Wiring kit
3RA2913-2AA2



1 x Wiring kit
3RA2913-2BB2



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Matching: Trainer Package ET 200SP with IO-Link communication module: 6ES7155-6AU00-0AB2

SIRIUS low-voltage devices with IO-Link (2/3)

1 x	3-phase busbar with infeed left, for 2 circuit breakers, size S00 and S0	3RV2917-1A
1 x	3-phase busbar including extension connector for 3 circuit breakers, size S00 and S0	3RV2917-4B
5 x	Contactor base, for contactor size S00 with screw/spring-loaded terminal (single-unit pack)	3RV2917-7AA00
2 x	Cable connector, size S00, spring-loaded terminal	3RV2917-5AA00
2 x	Circuit breaker, size S00, for motor protection, class 10, A-release 1.4..2A, N-release 26A, spring-loaded terminal, standard switching capacity	3RV2011-1BA20
2 x	Link module, electrical and mechanical, for 3RV2011 and 3RT2011, spring-loaded terminal	3RA2911-2AA00
2 x	Contactor, AC-3, 3kW/400V, 1NC, 24 V DC, communication-capable, 3-pin, size S00, spring-loaded terminal	3RT2015-2BB42-0CC0
3 x	Contactor, AC-3 3kW/400V, 1NC, 24 V DC, 3-pin, size S00, spring-loaded terminal	3RT2015-2BB42

Matching: Trainer Package ET 200SP with IO-Link communication module: 6ES7155-6AU00-0AB2

System requirements:	None available
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	See slides below
Order number:	3TK3388-0TP00



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SIRIUS low-voltage devices with IO-Link (3/3)

1 x	Wiring kit, spring-loaded terminal, electrical and mechanical, including mechanical interlock for reversing starters, size S00	3RA2913-2AA2	
1 x	Function module for IO-Link, reverse start, spring-loaded terminal, installation on contactors 3RT2 S00/S0, communication-capable contactor required	3RA2711-2BA00	
1 x	Wiring kit, spring-loaded terminal, electrical and mechanical, including mechanical interlock, for star-delta starter, size S00	3RA2913-2BB2	
1 x	Function module star-delta consisting of basic module and 2 coupling modules with integrated connecting cable, time range 0.5...60 s, 24...240 V AC/DC for contactors 3RT2	3RA2816-0EW20	
1 x	Digital monitoring relay cos phi and current monitoring for IO-Link 90 to 690 V AC, 0.2 to 10 A, overshoot and undershoot, on-delay time, tripping delay time, hysteresis 0.1 to 3.0 A, 2 change-over contacts, spring-type connection system	3UG4841-2CA40	
1 x	Overload relay 1...4 A for motor protection, size S00, class 5...30, contactor mounting main circuit: sprint-type terminal, auxiliary circuit: spring-type terminal, manual-automatic reset, internal ground fault detection	3RB3113-4PE0	
1 x	Operator control block for devices with IO-Link, operator control block for SIRIUS with IO-Link	3RA6935-0A	



Matching: Trainer Package ET 200SP with IO-Link communication module: 6ES7155-6AU00-0AB2

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SIRIUS industrial controls modular system



SIRIUS Industrial Controls [↗](#)

SIRIUS Command and Signaling Devices [↗](#)



Safety Integrated [↗](#)

Safety Relays 3SK1 [↗](#)



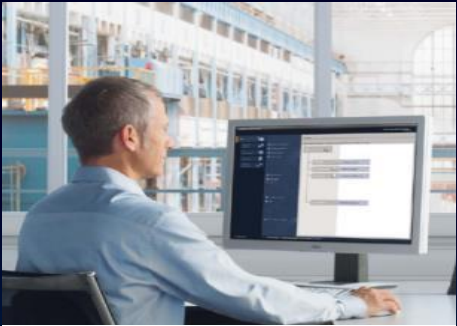
SIRIUS@YouTube [↗](#)

Safety@YouTube [↗](#)

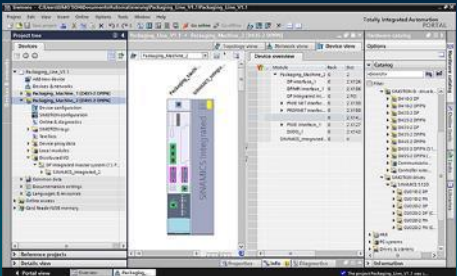
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Engineering and runtime software

Overview



SW functionally identical to the industrial version



Product	HW sets	Licenses	SW version	Order number (MLFB)	Note
SIMATIC TIA Portal Engineering Software STEP 7 Professional/WinCC V17		1	V17	6ES7822-1AA07-4YA5	NEW ○
SIMATIC TIA Portal Engineering Software STEP 7 Professional/WinCC V17		6+20	V17	6ES7822-1BA07-4YA5	NEW ○
Upgrade SIMATIC TIA Portal Engineering Software STEP 7 Professional / WinCC V17 as of 2006/2010/V11/V12/V13/V14/V15/V16		6+20	V17	6ES7822-1AA07-4YE5	NEW ○
SIMATIC TIA Portal Engineering Software STEP 7 Professional/WinCC V17 – 365 days		20	V17	6ES7822-1AC07-4YA5	NEW ○★
SIMOTION SCOUT Software incl. CamTool for STEP 7 Professional exclusively with V17		6+20	V5.4 SP1	In preparation (until 12/2021)	NEW ○
SIMOTION SCOUT Software incl. CamTool for students for STEP 7 Prof. exclusively with V17 – 365 days		20	V5.4 SP1	In preparation (until 12/2021)	NEW ○★
Upgrade SIMATIC STEP 7 BASIC for S7-1200		6	V17	6ES7822-0AA07-4YE5	NEW ○
SIMATIC CFC Software		12	V9.0	6ES7658-1EX58-0YS5	○
SIMATIC CFC Software for students – 365 days		20	V9.0	6ES7658-1EX58-0YS6	○★
SIMATIC NET IE SOFTNET		12	V17	6GK1950-0BB01	NEW ○
SIMATIC TIA Portal Engineering Software STEP 7 Professional/WinCC V17		1	V17	6ES7822-1AA07-4YA5	NEW ○
SIMATIC TIA Portal Engineering Software STEP 7 Professional/WinCC V17		6+20	V17	6ES7822-1BA07-4YA5	NEW ○

○ Relevant Information: <https://support.industry.siemens.com/cs/de/en/view/65601780>

★ Only for schools, colleges and universities

System structure of Trainer Packages STEP 7 and SIMATIC HMI

SIMATIC software

- STEP 7 as basis

Engineering tools for STEP 7

- S7-PLCSIM simulation of S7 hardware
- S7-SCL similar to ST according to IEC61131 high-level language
- S7-GRAH for sequencers according to DIN 1131-3

SIMATIC software HMI – Human Machine Interface

WinCC with

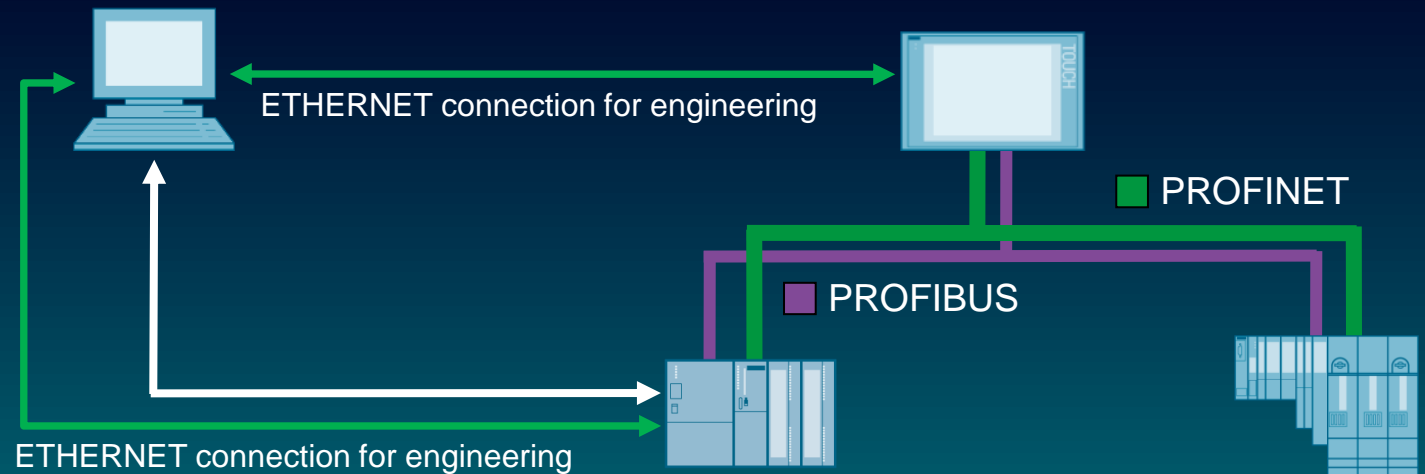
- Advanced level
- Smart Options
- Smart Access
- OPC interface
- ...

Software Engineering Tool for STEP 7

- SIMATIC CFC
- SIMATIC NET software
- ...

Touch Panel

- TP700 and TP1500
- MTP700 and MTP1500
- PROFIBUS and PROFINET connection



S7 controller

Trainer Package with PROFINET and PROFIBUS

ET 200SP Open Controller. ET 200SP ...

Trainer Package with PROFINET
For PROFIBUS, only interface has to be ordered separately

SIMATIC TIA Portal STEP 7 Professional Engineering and WinCC V17

Engineering and Runtime – Software for Training

1er license (individual license)

Combo license for changeable use:

- STEP 7 Professional V17
- STEP 7 Professional 2021

Combo license for changeable use:

- Safety Advanced V17
- Distributed Safety V5.4 SP5 Update 2

License for engineering SW:

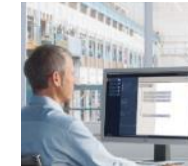
- CFC V17
- Cloud Connector V1.0
- Network Planner V2.0
- Multiuser V17
- Teamcenter Gateway V17
- Test Suite Advanced V17

License for S7-1500 hardware:

- S7-PLCSIM Advanced V4.0
- S7-ODK 1500S V2.5 (for Open Controller)
- S7-Target 1500S for Simulink® V5.0 (for Open Controller)

License for SINAMICS hardware:

- SINAMICS Startdrive license Basic V17
- SINAMICS Startdrive license Advanced V17
- SINAMICS DCC V17



Totally
Integrated
Automation
PORTAL

Check HW compatibility
for TIA Portal [↗](#)

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SIMATIC TIA Portal STEP 7 Professional Engineering and WinCC V17

Engineering and Runtime – Software for Training

1er license (individual license)

License for SIRIUS hardware:

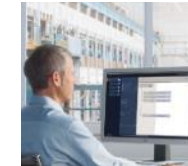
- SIRIUS ENGINEERING SAFETY ES Professional
- SIRIUS SIMOCODE ES Professional COMBO
- SIRIUS Soft Starter ES PREMIUM COMBO

License for S7-300 hardware:

- S7-Technology V4.2
- S7 PID Professional V17

Combo license for changeable use:

- SIMATIC WinCC Unified V17
- SIMATIC WinCC Advanced V17
- SIMATIC WinCC flexible 2008 SP5
- Energy Suite Engineering V17
- Visualization Architect (SiVArc) V17



Totally
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SIMATIC TIA Portal STEP 7 Professional Engineering and WinCC V17

Engineering and Runtime – Software for Training

Option and runtime software 1er license (individual license)

WinCC Advanced V17:

- WinCC RT Advanced (512 PowerTags)
- WinCC Recipes for RT Advanced
- WinCC Logging for RT Advanced
- WinCC Sm@rtServer for RT Advanced
WinCC Sm@rtServer for SIMATIC Comfort/Mobile Panels
WinCC Sm@rtServer for SIMATIC Basic Panels
- ProDiag for WinCC RT Advanced
- ProDiag for SIMATIC Comfort/Mobile Panels

WinCC Unified V17:

- WinCC Unified PC (1k) RT
- WinCC Unified Parameter Control (Unified PC)
- WinCC Unified Client Operate (10)
- WinCC Unified V17 Collaboration
- WinCC Unified Logging Tags (1000)

WinCC flexible 2008 SP5:

- WinCC flexible Runtime (128 PowerTags)
- WinCC flexible/Sm@rtAccess for Panels
- WinCC flexible/Sm@rtAccess for PC
- WinCC flexible/Sm@rtService for Panels
- WinCC flexible/Sm@rtService for PC
- WinCC flexible/OPC Server for PC
- WinCC flexible/Archives for PC
- WinCC flexible/Recipes for PC

- ▶ IOT2000
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- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC TIA Portal STEP 7 Professional Engineering and WinCC V17

Engineering and Runtime – Software for Training

1er license (individual license)


Packaging 1 x DVD per package:

- STEP 7 Prof/Safety/WinCC Adv/WinCC Unified V17
- CFC V17
- TIA Portal Test Suite Advanced V17
- S7-PLCSIM Advanced V4.0
- S7-PLCSIM V17
- WinCC Images V17
- WinCC Unified PC Runtime V17
- WinCC Runtime Advanced V17
- Energy Suite V17
- Visualization Architect (SiVArc) V17
- Siemens Network Planner V2.0
- S7-ODK 1500S V2.5 (for Open Controller)
- S7-Target 1500S for Simulink® V5.0 (for Open Controller)
- SINAMICS Startdrive V17
- SINAMICS DCC V17
- STEP 7 Professional 2021
- Distributed Safety V5.4 Update 2

All other DVDs can be downloaded

support.industry.siemens.com/cs/de/en/ps/13613/dl

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/loT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Authorization on USB stick (1 stick)
Order number:	6ES7822-1AA07-4YA5



Totally Integrated Automation
PORTAL

Check HW compatibility for TIA Portal [↗](#)

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC TIA Portal STEP 7 Professional Engineering and WinCC V17

Engineering and Runtime – Software for Training

6er classroom license

Combo license for changeable use:

- STEP 7 Professional V17
- STEP 7 Professional 2021

Combo license for changeable use:

- Safety Advanced V17
- Distributed Safety V5.4 SP5 Update 2

License for Engineering SW:

- CFC V17
- Cloud Connector V1.0
- Network Planner V2.0
- Multiuser V17
- Teamcenter Gateway V17
- Test Suite Advanced V17

License for S7-1500 hardware:

- S7-PLCSIM Advanced V4.0
- S7-ODK 1500S V2.5 (for Open Controller)
- S7-Target 1500S for Simulink® V5.0 (for Open Controller)

License for SINAMICS hardware:

- SINAMICS Startdrive license Basic V17
- SINAMICS Startdrive license Advanced V17
- SINAMICS DCC V17



Totally
Integrated
Automation
PORTAL

Check HW compatibility
for TIA Portal [↗](#)

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC TIA Portal STEP 7 Professional Engineering and WinCC V17

Engineering and Runtime – Software for Training

6er classroom license

License for SIRIUS hardware:

- SIRIUS ENGINEERING SAFETY ES Professional
- SIRIUS SIMOCODE ES Professional COMBO
- SIRIUS Soft Starter ES PREMIUM COMBO

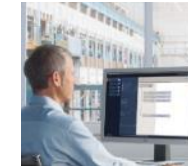
License for S7-300 hardware:

- S7-Technology V4.2
- S7 PID Professional V17

Combo license for changeable use:

- SIMATIC WinCC Unified V17
- SIMATIC WinCC Advanced V17
- SIMATIC WinCC flexible 2008 SP5
- Energy Suite Engineering V17
- Visualization Architect (SiVArc) V17

1 x SCE Trainer Package: SIMATIC STEP 7 / WinCC V17 software **for students**
Software subject to time limit of 365 days with authorization



Totally
Integrated
Automation
PORTAL

Check HW compatibility
for TIA Portal [↗](#)

6ES7822-1AC07-4YA5

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC TIA Portal STEP 7 Professional Engineering and WinCC V17

Engineering and Runtime – Software for Training

Option and runtime software 6er classroom license

WinCC Advanced V17:

- WinCC RT Advanced (512 PowerTags)
- WinCC Recipes for RT Advanced
- WinCC Logging for RT Advanced
- WinCC Sm@rtServer for RT Advanced
WinCC Sm@rtServer for SIMATIC Comfort/Mobile Panels
WinCC Sm@rtServer for SIMATIC Basic Panels
- ProDiag for WinCC RT Advanced
- ProDiag for SIMATIC Comfort/Mobile Panels

WinCC Unified V17:

- WinCC Unified PC (1k) RT
- WinCC Unified Parameter Control (Unified PC)
- WinCC Unified Client Operate (10)
- WinCC Unified V17 Collaboration
- WinCC Unified Logging Tags (1000)

WinCC flexible 2008 SP5:

- WinCC flexible Runtime (128 PowerTags)
- WinCC flexible/Sm@rtAccess for Panels
- WinCC flexible/Sm@rtAccess for PC
- WinCC flexible/Sm@rtService for Panels
- WinCC flexible/Sm@rtService for PC
- WinCC flexible/OPC Server for PC
- WinCC flexible/Archives for PC
- WinCC flexible/Recipes for PC

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC TIA Portal STEP 7 Professional Engineering and WinCC V17

Engineering and Runtime – Software for Training

6er classroom license

Packaging 1 x DVD per package:

- STEP 7 Prof/Safety/WinCC Adv./WinCC Unified V17
- CFC V17
- TIA Portal Test Suite Advanced V17
- S7-PLCSIM Advanced V4.0
- S7-PLCSIM V17
- WinCC Images V17
- WinCC Unified PC Runtime V17
- WinCC Runtime Advanced V17
- Energy Suite V17
- Visualization Architect (SiVArc) V17
- Siemens Network Planner V2.0
- S7-ODK 1500S V2.5 (for Open Controller)
- S7-Target 1500S for Simulink® V5.0 (for Open Controller)
- SINAMICS Startdrive V17
- SINAMICS DCC V17
- STEP 7 Professional 2021
- Distributed Safety V5.4 Update 2


All other DVDs can be downloaded

- support.industry.siemens.com/cs/de/en/ps/13613/dl

1 x SCE Trainer Package: SIMATIC STEP 7 / WinCC V17 software for students

Software subject to time limit of 365 days with authorization

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC	
Sales note:	Schools, colleges and universities, for in-house vocational training departments	
Technical note:	Authorization on USB stick (1 stick + 1 stick with 20 software for students)	
Order number:	6ES7822-1BA07-4YA5	Upgrade from 2006/2010/V11/V12/V13/V14/V15/V16 → V17/2021 6ES7822-1AA07-4YE5



Totally Integrated Automation
PORTAL

Check HW compatibility for TIA Portal [↗](#)

6ES7822-1AC07-4YA5

Core product for vocational World Cup Industrial Control [↗](#)



- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC TIA Portal STEP 7 and WinCC V17 software for students

Individual licenses – limited to 365 days with 20er licenses

Combo license for changeable use:

- STEP 7 Professional V17
- STEP 7 Professional 2021

Combo license for changeable use:

- Safety Advanced V17
- Distributed Safety V5.4 SP5 Update 2

License for Engineering SW:

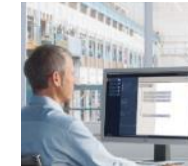
- CFC V17
- Multiuser V17
- Test Suite Advanced V17

License for S7-1500 hardware:

- S7-PLCSIM Advanced V4.0
- S7-ODK 1500S V2.5 (for Open Controller)
- S7-Target 1500S for Simulink® V5.0 (for Open Controller)

Option and Runtime software:

- WinCC Unified PC (1k) RT
- WinCC RT Advanced (512 PowerTags)
- WinCC flexible Runtime (128 PowerTags)



Totally
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PORTAL

Check HW compatibility
for TIA Portal [↗](#)

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

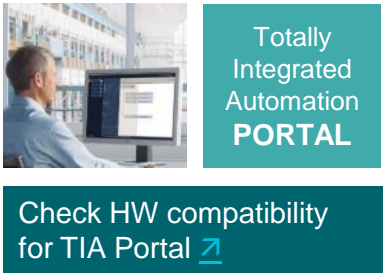
Software subject to time limit of 365 days with authorization

SIMATIC TIA Portal STEP 7 and WinCC V17 software for students

Individual licenses – limited to 365 days with 20er licenses

Packaging 1 x DVD per package:

- STEP 7 Prof/Safety/WinCC Adv/WinCC Unified V17
- CFC V17
- TIA Portal Test Suite Advanced V17
- S7-PLCSIM Advanced V4.0
- WinCC Unified PC Runtime V17
- WinCC Runtime Advanced V17
- S7-ODK 1500S V2.5 (for Open Controller)
- S7-Target 1500S for Simulink® V5.0 (for Open Controller)
- SINAMICS Startdrive V17
- STEP 7 Professional 2021
- Distributed Safety V5.4 Update 2



- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

All other DVDs can be downloaded

support.industry.siemens.com/cs/de/en/ps/13613/dl

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Use only for students for independent study at home. Schools, colleges and universities, not for in-house vocational training departments
Technical note:	Authorization on USB stick (1 stick)
Order number:	6ES7822-1AC07-4YA5

SIMOTION SCOUT V5.4 SP1 incl. CamTool V4.2 – Software for training – 6er classroom license

6 x License for SIMOTION SCOUT V5.4 SP1

6 x License for CamTool V4.2

6 x License for DCC SIMOTION V3.2 SP1

1x Package for 20 students (6AU1810-1BE5_-1YA5)

1 x 20 licenses for SIMOTION SCOUT V5.4 SP1 – **for students**

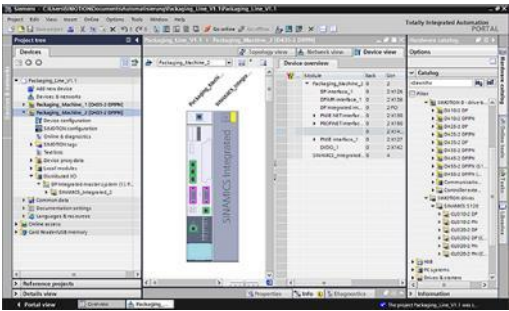
1 x 20 licenses for CamTool V4.2 – **for students**

1 x 20 licenses for DCC SIMOTION V3.2 SP1 – **for students**

Software subject to time limit of 365 days with authorization

Content: Software and documentation on a DVD

Please note: Only for STEP 7 Professional V17



- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

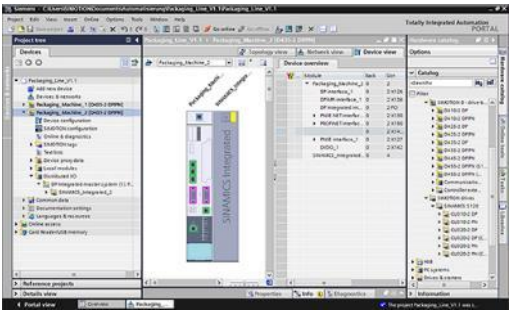
System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Authorization on USB stick (1 stick)
Order number:	6AU1810-1BC5_-1YA5 in preparation

SIMOTION SCOUT V5.4 SP1 incl. CamTool V4.2 – for students limited to 365 days

1x Package for 20 students

- 1 x 20 licenses for SIMOTION SCOUT V5.4 SP1 – **for students**
- 1 x 20 licenses for CamTool V4.2 – **for students**
- 1 x 20 licenses for DCC SIMOTION V3.2 SP1 – **for students**
- Software subject to time limit of 365 days with authorization

Content: Software and documentation on a DVD



- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Please note: Only for STEP 7 Professional V17

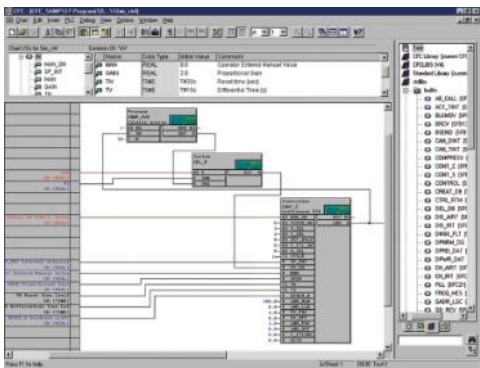
System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Use only for students for independent study at home. Schools, colleges and universities, not for in-house vocational training departments
Technical note:	Authorization on USB stick (1 stick)
Order number:	6AU1810-1BE5_-1YA5 in preparation

SIMATIC CFC software

12er classroom license

12 x **SIMATIC CFC V9.0**

3 x 20 **Software for students SIMATIC CFC V9.0**
SW limited to 365 days through authorization
20 licenses per USB stick.



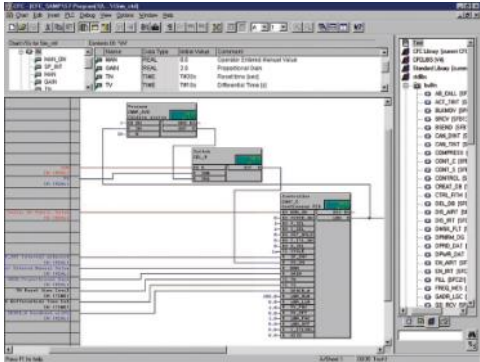
- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Authorization on USB stick (1 stick)
Order number:	6ES7658-1EX58-0YS5

SIMATIC CFC software for students

Single-user licenses – limited to 365 days

20 x **SIMATIC CFC V9.0 for students**
SW limited to 365 days through authorization
20 licenses per USB stick



- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Use only for students for independent study at home. Schools, colleges and universities, not for in-house vocational training departments
Technical note:	Authorization on USB stick (1 stick)
Order number:	6ES7658-1EX58-0YS6

SIMATIC NET IE SOFTNET

12er classroom license

12 x SIMATIC NET IE SOFTNET-S7 V17

6GK1704-1CW17-0AA0

SOFTNET-IE S7 V17 software for S7, S5-compatible communication, OPC; PG/OP communication, configuration software, up to 64 connections; floating license; runtime software, software and electronic manual; on DVD; license key on USB flash drive; class A; 2 languages (en, de); for Windows® 10 Pro/Enterprise (64-bit) version 1909, 2004, 20H2; Windows® Server 2016 (standard edition, Datacenter); Windows® Server 2019 (standard edition, Enterprise) Windows® 10(IoT) Enterprise 2016 LTSC Windows® 10(IoT) Enterprise 2019 LTSC



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Automation
PORTAL

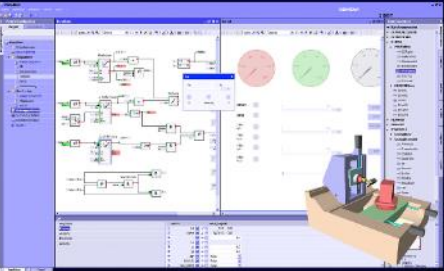
Check HW compatibility
for TIA Portal [↗](#)

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Authorization on USB stick (1 stick)
Order number:	6GK1950-0BB01

Virtual commissioning with SIMIT Simulation Platform

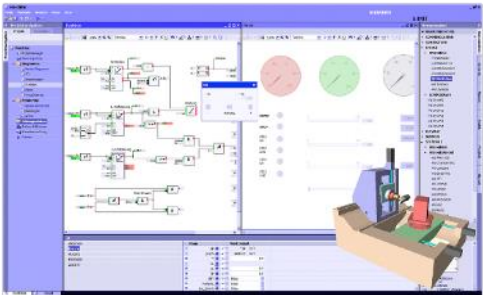
Overview



Product	HW sets	Licenses	SW version	Order number (MLFB)	Note
SIMIT simulation software: License USB dongle & carrier USB must be ordered additionally (includes SIMIT S & CTE, FLOWNET, CONTEC libraries) – 4000 simulation tags		1	V10.3	6DL8913-0AK30-0AS5	NEW
SIMATIC license USB dongle (must be ordered with every SIMIT package)	1			6DL8900-8XX00-0XB8-Z Y01 {Y01:0000-0000-0000}	NEW
SIMATIC license carrier USB stick (must be ordered with every SIMIT package)	1			6DL8900-7XX00-0XB8-Z Y01+Y02 {Y01:0000-0000-0000} {Y02:0-00000000}	NEW
SIMIT Simulation Platform, software media package		1	V10.3	6DL8913-0XK30-0XT8	NEW
Demo version SIMIT Simulation Platform, Software Media Package	SIMIT WBT	1	V10.3	Download	NEW

SIMIT Simulation Platform – full version V10.3 with dongle (valid for the next 3 versions)

- SIMIT 10.3 Trainer Package has the range of functions of SIMIT Model S
- SIMIT 10.3 cannot be installed “side by side” with older SIMIT versions
- SIMIT 10.3 has a new licensing procedure (with new dongle)
- The limitations in demo mode of SIMIT Runtime V10.x demo mode are the same as for SIMIT Runtime V8.x and V9.x



Full version with one dongle (dongle owner = single license)

1. Creating/changing/testing/upgrading of virtual plant models with full range of functions of SIMIT Version SMALL: with max. 4000 simulation tags and CTE and FLOWNET as well as CONTEC libraries
2. The following IO quantity restrictions apply to SIMIT models that are to be used in the demo version (without dongle): 30 bytes each for the input and output area (coupling area), independent of the absolute address. A byte is considered “occupied” when at least one bit of the byte has been used. Max. 4000 simulation tags are usable.

Coupling with
S7-1200 not possible

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC		
Sales note:	Schools, colleges and universities, for in-house vocational training departments		
Technical note:	Hardware USB dongle		
Order number:	6DL8913-0AK30-0AS5	6DL8900-8XX00-0XB8-Z Y01 {Y01:0000-0000-0000} *	6DL8900-7XX00-0XB8-Z Y01+Y02 Y01+Y02 {Y01:0000-0000-0000} {Y02:0-00000000} *

* Must be ordered with each SIMATIC package

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Demo version:

SIMIT Simulation Platform – Full version V10.3 without dongle

SIMIT V10.3 demo version

- The demo version is based on SIMIT S and can be used with max. 4000 simulation tags

The following restrictions apply for this demo version:

- The simulation will only run for 45 minutes and then has to be restarted
- Only one coupling can be added to the project
- The address space is limited to 30 bytes each for the input and output area (coupling area), independent of the absolute address.
A byte is considered “occupied” when at least one bit of the byte has been used
- The FLOWNET and CONTEC libraries are not supported
- The editor for dynamic graphics, the component type editor (CTE), the trend and message function, the macro component editor, the SMD Typical import and the interface for automatic control are available for test purposes in demo mode
- Projects created in demo mode cannot be executed in regular mode and are limited to the SIMIT installation in which they were created

➤ [Discover SIMIT](#)

SIMIT Simulation Media Systems (incl. Videos) → Download for Offline Usage

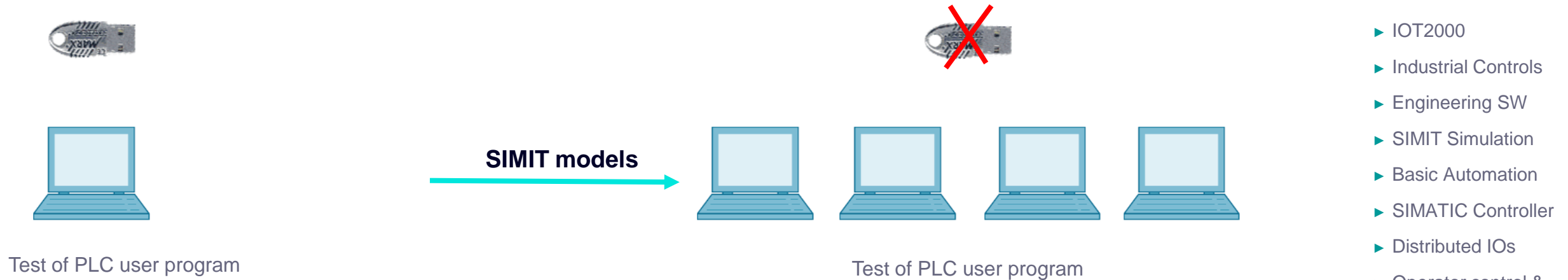
Coupling with
S7-1200 not possible

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	None available
Order number:	Download

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMIT Simulation Platform V10.3

Application versions



Educator (dongle owner):

- Creation, adaptation and transfer of models without restrictions
- Creation, adaptation and transfer of models for demo version within restrictions of demo version

Students (demo version without dongle):

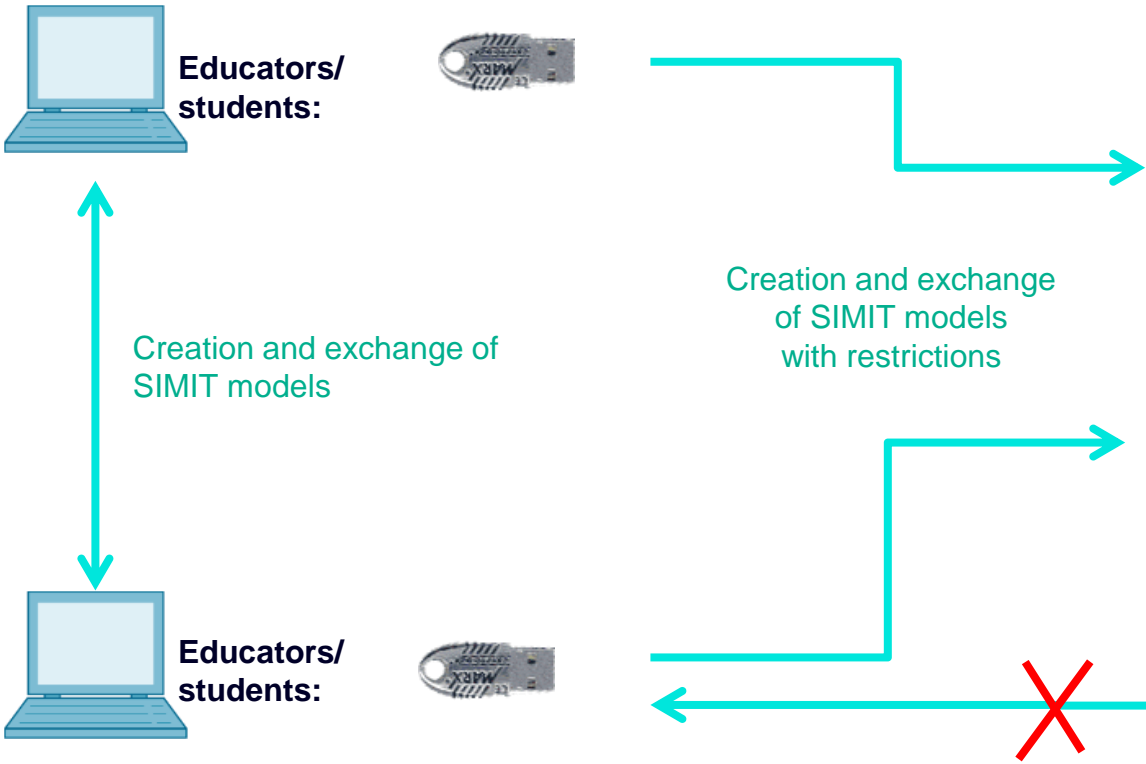
- Use of the models within the restrictions of the demo version
- Creation of own models with address space restriction
- Projects created in the demo version are restricted to the SIMIT installation in which they were created

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMIT Simulation Platform V10.3

Application versions

SIMIT V10.3 with SIMIT dongle A



SIMIT V10.3 with SIMIT dongle B

SIMIT demo version



Students (demo version without dongle):

- Use the models of any dongle owner within the restrictions of the demo version
- Simulation limited to 45 minutes
- Creation of own models within the restrictions of the demo version
- Projects created in demo mode are restricted to the SIMIT installation in which they were created

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
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- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Basic automation

Overview



Product	HW sets	Licenses	SW version	Order number (MLFB)	Note
LOGO! 8 12/24V ETHERNET with digital modules DM8 12/24R	6	6		6ED1057-3SA20-0YA1	NEW ○
LOGO! 8 230V ETHERNET with digital modules DM8 230R	6	6		6ED1057-3SA20-0YB1	NEW ○
LOGO! 8 12/24V ETHERNET <u>without</u> digital modules DM8 12/24R	9	9		6ED1057-3SA30-0YA1	NEW ○
Basic Controller SIMATIC S7-1200, CPU 1215C; DC/DC/DC	6	6	V17	6ES7215-1AG40-4AB1	NEW ○
Basic Controller SIMATIC S7-1200, CPU 1215C; AC/DC/RELAY	6	6	V17	6ES7215-1BG40-4AB1	NEW ○
Basic Controller SIMATIC S7-1200, CPU 1215C; DC/DC/RELAY	6	6	V17	6ES7215-1HG40-4AB1	NEW ○
Basic Controller SIMATIC S7-1200, CPU 1215C; DC/DC/RELAY with S7 Memory Card	6	6	V17	6ES7215-1HG40-4AB8	NEW ○
Upgrade SIMATIC STEP 7 BASIC for S7-1200		6	V17	6ES7822-0AA07-4YE5	NEW ○
SIMATIC KTP400 Basic Color Panel for LOGO! 7/8	1	1	V17	6AV2123-2DB03-0AA1	NEW ○
SIMATIC KTP400 Basic Color Panel for LOGO! 7/8	6	6	V17	6AV2123-2DB03-0AA0	NEW ○
SIMATIC KTP700 Basic Color Panel for S7-1200	1			6AV2123-2GB03-0AA1	○
SIMATIC KTP700 Basic Color Panel for S7-1200	6			6AV2123-2GB03-0AA0	○

○ Relevant Information: <https://support.industry.siemens.com/cs/de/en/view/65601780>

LOGO! 8 12/24V or 230V

with ETHERNET interface and digital modules DM8

LOGO! 12/24V

6x LOGO! 12/24 RCE

6x LOGO! DM8 12/24R expansion module

6x LOGO! Soft Comfort V8

6ED1052-1MD08-0BA1

6ED1055-1MB00-0BA2

6ED1058-0BA08-0YA1

LOGO! 230V

6x LOGO! 230 RCE

6x LOGO! DM8 230R expansion module

6x LOGO! Soft Comfort V8

6ED1052-1FB08-0BA1

6ED1055-1FB00-0BA2

6ED1058-0BA08-0YA1



Recommended accessories

6AV2123-2DB03-0AA1; 6AV2123-2DB03-0AA0

Trainer Package: SIMATIC Basic Panel KTP400

6XV1870-3RH60

SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

6GK1950-0BB00

Trainer Package: FastConnect cable set

6EP3333-6SB00-0AY0

LOGO!Power 24 V / 4 A stabilized power supply
input: 100-240 V AC output: 24 V DC / 4 A

Perfectly tailored to the current examinations for:

- Electronics Technician for Building and Infrastructure Systems (EGI) Occupation No. 3160
An additional Micro SDHC memory card must be available for the examinations

System requirements: Windows XP, 7, 8, 10 (32- and 64-bit), Mac OSx 10.7 Lion up to and including Mac OSx El Capitan, Linux SUSE 11.3, SP3, K 3.0.76

Sales note: Schools, colleges and universities, for in-house vocational training departments

Technical note: ETHERNET cable required

Order number: 12/24V : 6ED1057-3SA20-0YA1
230V: 6ED1057-3SA20-0YB1

Core product
for vocational
World Cup
Industrial
Control [Z](#)



- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

LOGO! 8 12/24V

with ETHERNET interface without digital modules DM8

LOGO! 9 set

9x LOGO! 12/24 RCE

9x LOGO! Soft Comfort V8

6ED1052-1MD08-0BA1

6ED1058-0BA08-0YA1



Recommended accessories

6AV2123-2DB03-0AA1; 6AV2123-2DB03-0AA0

Trainer Package: SIMATIC Basic Panel KTP400

6XV1870-3RH60

SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

6GK1950-0BB00

Trainer Package: FastConnect cable set

6EP3333-6SB00-0AY0

LOGO!Power 24 V / 4 A stabilized power supply
input: 100-240 V AC output: 24 V DC / 4 A

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	Windows XP, 7, 8, 10 (32- and 64-bit), Mac OSx 10.7 Lion up to and including Mac OSx El Capitan, Linux SUSE 11.3, SP3, K 3.0.76
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	ETHERNET cable required
Order number:	6ED1057-3SA30-0YA1

Basic Controller SIMATIC S7-1200, CPU 1215C

DC/DC/DC, AC/DC/RELAY, DC/DC/RELAY

Orders before 09/2021
contain SW Status V16


6 x	Alternative 1: → DC/DC/DC Package: SIMATIC S7-1200, CPU 1215C, compact CPU, DC/DC/DC, 2 PROFINET ports, onboard IO: 14 DI 24 V DC; 10 DQ 24 V DC; 0.5A; 2 AI 0-10 V DC, 2 AQ 0-20 mA DC, Power supply: 20.4-28.8 V DC, program/data memory 125 KB	6ES7215-1AG40-0XB0	<ul style="list-style-type: none">▶ IOT2000▶ Industrial Controls▶ Engineering SW▶ SIMIT Simulation▶ Basic Automation▶ SIMATIC Controller▶ Distributed IOs▶ Operator control & monitoring▶ Process Automation▶ Industrial Communication▶ Industrial Identification▶ Drive Technology▶ SinuTrain SW▶ PLM Software▶ WorldSkills▶ Ordering Inform.
6 x	Alternative 2: → AC/DC/RELAY Package: SIMATIC S7-1200, CPU 1215C, compact CPU, AC/DC/Relay, 2 PROFINET ports, Onboard IO: 14 DI 24 V DC; 10 DQ Relay 2A, 2 AI 0-10V DC, 2 AQ 0-20mA DC, Power supply: 85-264V AC at 47-63 Hz, program/data storage 125 KB	6ES7215-1BG40-0XB0	
6 x	Alternative 3: → DC/DC/RELAY Package SIMATIC S7-1200, CPU 1215C, compact CPU, DC/DC/Relay, 2 PROFINET ports, Onboard IO: 14 DI 24 V DC; 10 DQ Relay 2A, 2 AI 0-10V DC, 2 AQ 0-20mA DC, Power supply: 20.4-28.8 V DC, program/data memory 125 KB	6ES7215-1HG40-0XB0	
<hr/>			
6 x	SIMATIC STEP 7 Basic V17; floating license; engineering software in TIA Portal; software and documentation on DVD; license key on USB flash drive; class A; 9 languages: en, de, zh included, fr, es, it, ru, jp, kr as download; executable in Windows 10, Windows Server 2016/2019; for configuration of SIMATIC S7-1200 SIMATIC Basic Panels	6ES7822-0AA07-0YA5	
6 x	SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m	6XV1870-3RH60	

Upgrade SIMATIC STEP 7 Basic for S7-1200 V17

Software for training

6 x STEP 7 Basic V17 Upgrade Version V10.5 /V11/V12/V13/14/15/15.1/16 to V17

SIMATIC STEP 7 Basic V17 Trainer Package Upgrade V17
Engineering software; upgrade for 6 V10.5/V11/V12/V13/V14/V15/V15.1/V16
Single floating →V17 floating; software and documentation on DVD
License keys on USB; 9 languages: en, de, zh included and fr, es, it, ru, jp, kr as download
For configuration of SIMATIC S7-1200, SIMATIC Basic Panels



Totally
Integrated
Automation
PORTAL

Check HW compatibility
for TIA Portal [↗](#)

6 x SINAMICS Startdrive Basic license V17 for SINAMICS G120 CONTROL UNIT CU240E-2, CU250S-2, as of firmware V4.6

Package with:

- 1 x DVD SIMATIC STEP 7 Basic V17
- 1 x DVD PLCSIM V17
- 1 x DVD SINAMICS Startdrive Basic V17

NOTE for SIMATIC STEP 7 basic software: Only one hardware S7-1200, Basic Panel [KTP400](#) and Basic Panel [KTP700](#)

System requirements:	WIN10 (64-bit) Home. 1909, 2004, 20H2 WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Authorization on USB stick
Order number:	6ES7822-0AA07-4YE5

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC KTP400 Basic Color Panel for LOGO! ETHERNET



SIMATIC KTP400
Basic Color PN
6AV2123-2DB03-0AX0



SCALANCE
XB005
6GK5005-0BA00-1AB2



SIMATIC WinCC Basic V17
Engineering SW
6AV2100-0AA07-0AA5



ETHERNET cable
6XV1870-3RH60

Package 6AV2123-2DB03-0AA1
contains 1 x

Package 6AV2123-2DB03-0AA0
contains 6 x

Package 6AV2123-2DB03-0AA1
contains 2 x

Package 6AV2123-2DB03-0AA0
contains 12 x

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC KTP400 Basic Color Panel for LOGO!

ETHERNET 1er

1 x	SIMATIC KTP400 Basic Color PN, key and touch operation, 4" TFT display, 65536 colors, PROFINET interface configurable as of WinCC Basic V13/STEP 7 Basic V13	6AV2123-2DB03-0AX0
1 x	SCALANCE XB005, unmanaged Industrial ETHERNET switch for 10/100 Mbps; with 5 x 10/100 Mbps twisted pair ports with RJ45 sockets; for configuring small star and line topologies; LED diagnostics, IP20, 24 V DC power supply, including manual	6GK5005-0BA00-1AB2
2 x	SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m	6XV1870-3RH60
1 x	SIMATIC WinCC Basic V17, engineering software in the TIA Portal; floating license; software and documentation on DVD; license key on USB flash drive; class A; 6 languages: en, de, fr, es, it, zh; for configuration of SIMATIC Basic Panels. Please observe product release: support.industry.siemens.com entry ID: 109795525	6AV2100-0AA07-0AA5

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	WIN10 (64-bit) Home. 1909, 2004, 20H2 WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Authorization for WinCC Basic on USB stick
Order number:	6AV2123-2DB03-0AA1

SIMATIC KTP400 Basic Color Panel for LOGO! ETHERNET 6er

- 6 x SIMATIC KTP400 Basic Color PN, key and touch operation, 4" TFT display, 65536 colors, PROFINET interface configurable as of WinCC Basic V13/STEP 7 Basic V13
- 6 x SCALANCE XB005, unmanaged Industrial ETHERNET switch for 10/100 Mbps; with 5 x 10/100 Mbps twisted pair ports with RJ45 sockets; for configuring small star and line topologies; LED diagnostics, IP20, 24 V DC power supply, including manual
- 12 x SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m
- 6 x SIMATIC WinCC Basic V17, engineering software in the TIA Portal; floating license; software and documentation on DVD; license key on USB flash drive; class A; 6 languages: en, de, fr, es, it, zh; for configuration of SIMATIC Basic Panels. Please observe product release: support.industry.siemens.com entry ID: 109795525


6AV2123-2DB03-0AX0

6GK5005-0BA00-1AB2

6XV1870-3RH60

6AV2100-0AA07-0AA5

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	WIN10 (64-bit) Home. 1909, 2004, 20H2 WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC	 <div>Totally Integrated Automation PORTAL</div> <div>Check HW compatibility for TIA Portal ↗</div>
Sales note:	Schools, colleges and universities, for in-house vocational training departments	
Technical note:	Authorization for WinCC Basic on USB stick	
Order number:	6AV2123-2DB03-0AA0	

SIMATIC KTP700 Basic Color Panel for S7-1200



SIMATIC KTP700
Basic Color PN
6AV2123-2GB03-0AX0



SCALANCE
XB005
6GK5005-0BA00-1AB2



ETHERNET cable
6XV1870-3RH60

Package 6AV2123-2DB03-0AA1
contains 1 x

Package 6AV2123-2DB03-0AA0
contains 6 x

Package 6AV2123-2DB03-0AA1
contains 2 x

Package 6AV2123-2DB03-0AA0
contains 12 x

NOTE: SIMATIC STEP 7/WinCC ≥ V13 is absolutely necessary for configuration! Upgrade, [see Basic Automation](#)

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC KTP700 Basic Color Panel 1er

- 1 x SIMATIC KTP700, basic color panel, key and touch operation, 7" TFT display, 65536 colors, PROFINET interface, configurable as of WinCC Basic V13/STEP 7 Basic V13
- 1 x SCALANCE XB005, unmanaged Industrial ETHERNET switch for 10/100 Mbps; with 5 x 10/100 Mbps twisted pair ports with RJ45 sockets; for configuring small star and line topologies; LED diagnostics, IP20, 24 V DC power supply, including manual
- 2 x SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m


6AV2123-2GB03-0AX0

6GK5005-0BA00-1AB2

6XV1870-3RH60

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

NOTE: SIMATIC STEP 7/WinCC ≥ V13 is absolutely necessary for configuration! Upgrade, [see Basic Automation](#)

System requirements:	WIN10 (64-bit) Home. 1909, 2004, 20H2 WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC	 <div>Totally Integrated Automation PORTAL</div> <div>Check HW compatibility for TIA Portal ↗</div>
Sales note:	Schools, colleges and universities, for in-house vocational training departments	
Technical note:	Configuration software required	
Order number:	6AV2123-2GB03-0AA1	

SIMATIC KTP700 Basic Color Panel 6er

- 6 x SIMATIC KTP700, basic color panel, key and touch operation, 7" TFT display, 65536 colors, PROFINET interface, configurable as of WinCC Basic V13/STEP 7 Basic V13
- 6 x SCALANCE XB005, unmanaged Industrial ETHERNET switch for 10/100 Mbps; with 5 x 10/100 Mbps twisted pair ports with RJ45 sockets; for configuring small star and line topologies; LED diagnostics, IP20, 24 V DC power supply, including manual
- 12 x SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

6AV2123-2GB03-0AX0


6GK5005-0BA00-1AB2

6XV1870-3RH60

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

NOTE: SIMATIC STEP 7/WinCC ≥ V13 is absolutely necessary for configuration! Upgrade, [see Basic Automation](#)

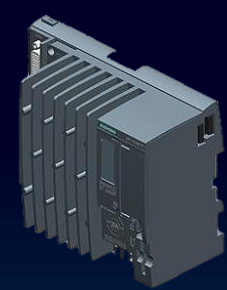
System requirements:	WIN10 (64-bit) Home. 1909, 2004, 20H2 WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Configuration software required
Order number:	6AV2123-2GB03-0AA0



Totally Integrated Automation
PORTAL

Check HW compatibility for TIA Portal [↗](#)

Controller Overview



Product	HW sets	Licenses	SW version	Order number (MLFB)	Note
SIMATIC ET 200SP Open Controller CPU 1515SP PC2 F with WinCC RT Advanced 512 PTs	1	1	V17	6ES7677-2SB42-4AB1	NEW
SIMATIC ET 200SP Open Controller CPU 1515SP PC2 TF with WinCC RT Advanced 512 PTs	1	1	V17	6ES7677-2WB42-4AB1	NEW
SIMATIC ET 200SP Distributed Controller CPU 1512SP F-1 PN Safety	1	1	V17	6ES7512-1SK00-4AB2	NEW
SIMATIC CPU 1517TF-3 PN/DP Safety with software <u>without</u> IOs (must be purchased separately)	1	1	V17	6ES7517-3UP00-4AB1	NEW
SIMATIC CPU 1516F PN/DP Safety with software	1	1	V17	6ES7516-3FN00-4AB2	NEW
SIMATIC CPU 1516 PN/DP with software	1	1	V17	6ES7516-3AN00-4AB3	NEW
Upgrade SIMATIC CPU 314C-2 PN/DP – Available until 09/2022	1			6ES7314-6EH04-4AB4	

Relevant Information: <https://support.industry.siemens.com/cs/de/en/view/65601780>

ET 200SP Open Controller – Second Generation

CPU 1515SP PC2 F with S7-1500 SW Controller and WinCC RT Advanced 512 PTs

Orders before 09/2021
contain SW Status V16



ET 200SP Open Controller,
CPU 1515SP PC2 F
+ HMI 512PT



BusAdapter 2 x DI 8x24
VDC/
0.5A HF



2 x DQ 8x24
VDC/
0.5A HF

4 x BaseUnits



1 x ETHERNET
cable



STEP 7 Professional incl. ODK
+ Target 1500S for Simulink
and WinCC Advanced V17
SW for training, 1er license

Recommended accessories

6ES7134-6PA20-0BD0
Analog input module,
AI Energy Meter

6ES7193-6BP00-0BD0
BaseUnit

6ES7193-6SC00-1AM0
5 shielding terminals

6ES7137-6BD00-0BA0
Communication Module
IO-Link Master

6ES7193-6BP00-0DA0
BaseUnit

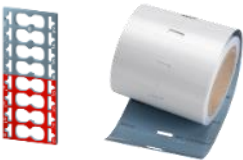
3RK7137-6SA00-0BC1
Communication Module
ASI Master

6ES7193-6BP20-0DC0
BaseUnit

6GK1950-0BB00
Trainer Package:
FastConnect cable set

6EP7133-6AE00-0BN0
Power Supply
Input: 120/230 V AC
output: 24 V DC/10 A

6EP7133-6AB00-0BN0
Power Supply
Input: 120/230 V AC
output: 24 V DC/5A



Color-coded labels,
labeling strips

Expansions: ET 200SP analog modules: 6ES7155-6AU00-0AB6

NOTE: SIMATIC STEP 7 Professional ≥ V14 is absolutely necessary for configuration

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

ET 200SP Open Controller – Second Generation

CPU 1515SP PC2 F with S7-1500 SW Controller and WinCC RT Advanced 512 PTs

Orders before 09/2021
contain SW Status V16

- 1 x SIMATIC, standard mounting rail 35 mm, length 483 mm for 19" cabinet
- 1 x SIMATIC ET 200SP Open Controller, CPU 1515SP PC2 F + HMI 512PT, 8 GB RAM, 128 GB CFast with Windows 10 IoT Enterprise 64 bit, S7-1500 Fail-safe Software Controller CPU 1505SP F and WinCC Runtime Advanced pre-installed, with 512 PowerTags license, interfaces: 1x slot CFast, 1x slot SD/MMC, 1x connection for ET 200SP BusAdapter PROFINET, 1x 10/100/1000 Mbps ETHERNET, 2x USB 3.0; 2x USB 2.0, 1x DisplayPort, documentation on CFast, restore image on CFast
- 2 x DI 8x24VDC/0.5A HF
- 2 x DQ 8x24VDC/0.5A HF
- 1 x BusAdapter 2x RJ45
- 4 x BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog max 24 V DC/10 A)
- 1 x Color-coded labels, 16 process terminals, gray/red, CC01, 10 units
- 1 x 1000 labeling strips, light gray, 10 sheets DIN A4, perforated, paper
- 1 x Color-coded labels, 16 process terminals, gray/blue, CC02, 10 units
- 1 x SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m
- 1 x STEP 7 Professional incl. ODK + Target 1500S for Simulink and WinCC Advanced V17 SW for Training, 1er license

6ES5710-8MA11
6ES7677-2SB42-0GL0

6ES7131-6BF00-0CA0
6ES7132-6BF00-0CA0
6ES7193-6AR00-0AA0
6ES7193-6BP00-0DA0
6ES7193-6CP01-2MA0
6ES7193-6LA10-0AA0
6ES7193-6CP02-2MA0
6XV1870-3RH60
6ES7822-1AA07-4YA5

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	SIMATIC STEP 7 Professional from V15 required
Order number:	6ES7677-2SB42-4AB1

ET 200SP Open Controller – Second Generation

CPU 1515SP PC2 TF with S7-1500 SW Controller & WinCC RT Advanced 512 PTs

Orders before 09/2021
contain SW Status V16



ET 200SP Open Controller,
CPU 1515SP PC2 F
+ HMI 512PT



BusAdapter



2 x DI 8x24
VDC/
0.5A HF



2 x DQ
8x24
VDC/
0.5A HF



4 x BaseUnits



1 x ETHERNET
cable



STEP 7 Professional incl. ODK
+ Target 1500S for Simulink
and WinCC Advanced V17
SW for training, 1er license

Recommended accessories

6ES7134-6PA20-0BD0
Analog input module,
AI Energy Meter

6ES7193-6BP00-0BD0
BaseUnit

6ES7193-6SC00-1AM0
5 shielding terminals

6ES7137-6BD00-0BA0
Communication Module
IO-Link Master

6ES7193-6BP00-0DA0
BaseUnit

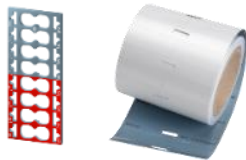
3RK7137-6SA00-0BC1
Communication Module
ASI Master

6ES7193-6BP20-0DC0
BaseUnit

6GK1950-0BB00
Trainer Package:
FastConnect cable set

6EP7133-6AE00-0BN0
Power Supply
Input: 120/230 V AC output:
24 V DC/10 A

6EP7133-6AB00-0BN0
Power Supply
Input: 120/230 V AC output:
24 V DC/5A



Color-coded labels,
Labeling strips

Expansions: ET 200SP analog modules: 6ES7155-6AU00-0AB6

NOTE: SIMATIC STEP 7 Professional ≥ V14 is absolutely necessary for configuration

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

ET 200SP Open Controller – Second Generation

CPU 1515SP PC2 TF with S7-1500 SW Controller & WinCC RT Advanced 512 PTs

Orders before 09/2021
contain SW Status V16

- 1 x Standard mounting rail 35 mm, length 483 mm, for 19" cabinet
- 1 x SIMATIC ET 200SP Open Controller, CPU 1515SP PC2 TF + HMI 512PT, 8 GB RAM, 128 GB CFast with Windows 10 IoT Enterprise 64 bit, S7-1500 Fail-safe Software Controller CPU 1505SP TF and WinCC Runtime Advanced pre-installed, with 512 PowerTags license, interfaces: 1x slot CFast, 1x slot SD/MMC, 1x connection for ET 200SP BusAdapter PROFINET, 1x 10/100/1000 Mbps ETHERNET, 2x USB 3.0; 2x USB 2.0, 1x DisplayPort, documentation on CFast, restore image on CFast
- 2 x DI 8x24VDC/0.5A HF
- 2 x DQ 8x24VDC/0.5A HF
- 1 x BusAdapter 2x RJ45
- 4 x BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog max 24 V DC/10 A)
- 1 x Color-coded labels, 16 process terminals, gray/red, CC01, 10 units
- 1 x 1000 labeling strips, light gray, 10 sheets DIN A4, perforated, paper
- 1 x Color-coded labels, 16 process terminals, gray/blue, CC02, 10 units
- 1 x SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m
- 1 x STEP 7 Professional incl. ODK + Target 1500S for Simulink and WinCC Advanced V17 SW for Training, 1er license

6ES5710-8MA11
6ES7677-2SB42-0GL0

6ES7131-6BF00-0CA0
6ES7132-6BF00-0CA0
6ES7193-6AR00-0AA0
6ES7193-6BP00-0DA0
6ES7193-6CP01-2MA0
6ES7193-6LA10-0AA0
6ES7193-6CP02-2MA0
6XV1870-3RH60
6ES7822-1AA07-4YA5

- IOT2000
- Industrial Controls
- Engineering SW
- SIMIT Simulation
- Basic Automation
- SIMATIC Controller
- Distributed IOs
- Operator control & monitoring
- Process Automation
- Industrial Communication
- Industrial Identification
- Drive Technology
- SinuTrain SW
- PLM Software
- WorldSkills
- Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	SIMATIC STEP 7 Professional from V15 required
Order number:	6ES7677-2WB42-4AB1

ET 200SP Distributed Controller

Orders before 09/2021
contain SW Status V16



1 x ET 200SP
Distributed Controller



BusAdapter



2 x DI 8x24
VDC/
0.5A HF



2 x DQ 8x24
VDC/
0.5A HF



4 x BaseUnits



1 x
ETHERNET
cable



Color-coded labels,
Labeling strips



1 x Memory
Card 24 MB

Recommended accessories
6ES7134-6PA20-0BD0
Analog input module,
AI Energy Meter
6ES7193-6BP00-0BD0
BaseUnit
6ES7193-6SC00-1AM0
5 shielding terminals

6ES7137-6BD00-0BA0
Communication Module
IO-Link Master
6ES7193-6BP00-0DA0
BaseUnit

3RK7137-6SA00-0BC1
Communication Module
ASI Master
6ES7193-6BP20-0DC0
BaseUnit
6GK1950-0BB00
Trainer Package:
FastConnect cable set

6EP7133-6AE00-0BN0
Power Supply
Input: 120/230 V AC
output: 24 V DC/10 A
6EP7133-6AB00-0BN0
Power Supply
Input: 120/230 V AC
output: 24 V DC/5A



STEP 7 Professional and
WinCC Advanced V17 SW
for training, 1er license

NOTE: SIMATIC STEP 7 Professional and Safety Advanced ≥ V13 SP1 Update 4 are absolutely necessary for configuration

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

ET 200SP Distributed Controller

CPU 1512SP F-1 PN Safety

Orders before 09/2021
contain SW Status V16

- 1 x Standard mounting rail 35 mm, length 483 mm for 19" cabinet
- 1 x CPU 1512SP F-1 PN for ET 200SP, central processing unit with work memory 300 KB for program and 1 MB for data, 1st interface, PROFINET IRT with 3-port switch, 48 ns bit performance, Memory Card required
- 1 x SIMATIC S7, Memory Card for S7-1X00 CPU/SINAMICS, 3,3 V Flash, 24 MB
- 2 x DI 8x24VDC/0.5A HF
- 2 x DQ 8x24VDC/0.5A HF
- 1 x BusAdapter 2x RJ45
- 4 x BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog max 24 V DC/10 A)
- 1 x Color-coded labels, 16 process terminals, gray/red, CC01, 10 units
- 1 x 1000 labeling strips, light gray, 10 sheets DIN A4, perforated, paper
- 1 x Color-coded labels, 16 process terminals, gray/blue, CC02, 10 units
- 1 x SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m
- 1 x STEP 7 Professional and WinCC Advanced V17 SW for Training, 1er license

6ES5710-8MA11
6ES7512-1SK01-0AB0

6ES7954-8LF03-0AA0
6ES7131-6BF00-0CA0
6ES7132-6BF00-0CA0
6ES7193-6AR00-0AA0
6ES7193-6BP00-0DA0
6ES7193-6CP01-2MA0
6ES7193-6LA10-0AA0
6ES7193-6CP02-2MA0
6XV1870-3RH60
6ES7822-1AA07-4YA5

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Expansions: ET 200SP F-technology 6ES7136-6BA00-0AB1 and/or ET 200SP analog modules: 6ES7155-6AU00-0AB600

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	SIMATIC STEP 7 Professional and Safety Advanced as of V13 SP1 Update 4 required
Order number:	6ES7512-1SK00-4AB2

SIMATIC CPU 1517TF-3 PN/DP Safety with software without IOs (must be purchased separately)

Orders before 09/2021
contain SW Status V16



1 x CPU
1517TF-3 PN/DP



1 x Power supply
Input: 120/230 V AC;
Output: 24 V DC, 8 A



1 x Memory
Card 256 MB



1 x ETHERNET
cable



1 x SIMATIC S7-1500,
mounting rail 482 mm



STEP 7 Professional and
WinCC Advanced V17 SW
for training, 1er license

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC STEP 7 Professional \geq V16 is absolutely necessary for configuration

SIMATIC CPU 1517TF-3 PN/DP Safety with software without IOs (must be purchased separately)

Orders before 09/2021
contain SW Status V16

- 1 x SIMATIC PM 1507 24 V/8 A stabilized power supply for SIMATIC S7-1500, input: 120/230 V AC, output: 24 V DC/8 A
- 1 x SIMATIC S7-1500TF, CPU 1517TF-3 PN/DP, central processing unit with work memory 3 MB for program and 8 MB for data,
1st interface: PROFINET IRT with 2-port switch
2nd interface: ETHERNET,
3rd interface: PROFIBUS, 2 ns bit performance, SIMATIC Memory Card required
- 1 x SIMATIC S7-1500, mounting rail 482.6 mm (approx. 19 inch); incl. grounding screw, integrated DIN rail for mounting
- 1 x SIMATIC S7, Memory Card for S7-1X00 CPU, 3.3 V FLASH, 256 MBYTE
- 1 x SIMATIC NET Industrial ETHERNET XP Cord RJ45/RJ45, CAT 6A, crossed TP cable 4x2, length 6 m
- 1 x STEP 7 Professional and WinCC Advanced V17 SW for Training, 1er license

6EP1333-4BA00

6ES7517-3UP00-0AB0

6ES7590-1AE80-0AA0

6ES7954-8LL03-0AA0

6XV1870-3RH60

6ES7822-1AA07-4YA5

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	SIMATIC STEP 7 Professional from V16 required
Order number:	6ES7517-3UP00-4AB1

SIMATIC CPU 1516F PN/DP Safety with software

Orders before 09/2021
contain SW Status V16



1 x CPU
1516 F PN/DP



1 x Digital
input module
DI 32 x 24 V DC



1 x Digital
output module
DQ 32 x 24VDC/0.5 A



1 x Analog
input module
AI 8 x U/I/RTD/TC



1 x Analog
output module
AQ 4 x U/I ST



1 x Power supply
Input: 120/230 V AC
Output: 24 V DC, 8 A



4 x Front
connector 40-pin



1 x Memory
Card 24 MB



1 x ETHERNET
cable, 6 m



1 x S7-1500, mounting
rail 482 mm



STEP 7 Professional and
WinCC Advanced V17 SW
for training, 1er license

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

NOTE: SIMATIC STEP 7 Professional and Safety Advanced ≥ V13 SP1 Update 4 are absolutely necessary for configuration

SIMATIC CPU 1516F PN/DP Safety with software

Orders before 09/2021
contain SW Status V16

- 1 x SIMATIC PM 1507 24 V/8 A stabilized power supply, input: 120/230 V AC, output: 24 V DC/8 A
- 1 x SIMATIC S7-1500F, CPU 1516F-3 PN/DP, with work memory 1.5 MB for program, 5 MB for data,
1st interface, PROFINET IRT with 2-port switch
2nd interface, ETHERNET
3rd interface, PROFIBUS, 10 ns bit performance, SIMATIC Memory Card required
- 1 x SIMATIC S7-1500, digital input module DI 32 x 24V DC, 32 channels in groups of 16
- 1 x SIMATIC S7-1500, digital output module DQ 32 X 24 V DC/0.5 A; 32 channels
- 1 x SIMATIC S7-1500, analog input module AI 8 x U/I/RTD/TC, 16-bit resolution, 8 channels, in groups of 8
- 1 x SIMATIC S7-1500, analog output module AQ 4 x U/I ST; 16-bit resolution, 4 channels in groups of 4
- 1 x SIMATIC S7-1500, mounting rail, 482 mm
- 1 x SIMATIC S7, Memory Card for S7-1X00 CPU/SINAMICS, 3.3 V FLASH, 24 MB
- 4 x SIMATIC S7-1500, front connector, screw-type, 40-pin
- 1 x SIMATIC NET, Industrial ETHERNET XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m
- 1 x STEP 7 Professional and WinCC Advanced V17 SW for Training, 1er license

6EP1333-4BA00
6ES7516-3FN02-0AB0

6ES7521-1BL00-0AB0
6ES7522-1BL01-0AB0
6ES7531-7KF00-0AB0
6ES7532-5HD00-0AB0
6ES7590-1AE80-0AA0
6ES7954-8LF03-0AA0
6ES7592-1AM00-0XB0
6XV1870-3RH60
6ES7822-1AA07-4YA5

- IOT2000
- Industrial Controls
- Engineering SW
- SIMIT Simulation
- Basic Automation
- SIMATIC Controller
- Distributed IOs
- Operator control & monitoring
- Process Automation
- Industrial Communication
- Industrial Identification
- Drive Technology
- SinuTrain SW
- PLM Software
- WorldSkills
- Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	SIMATIC STEP 7 Professional and Safety Advanced V13 SP1 Update 4 required
Order number:	6ES7516-3FN00-4AB2

SIMATIC CPU 1516 PN/DP with software

Orders before 09/2021
contain SW Status V16



1 x CPU
1516 F PN/DP



1 x Digital
input module
DI 32 x 24 V DC



1 x Digital
output module
DQ 32 x 24VDC/0.5 A



1 x Analog
input module
AI 8 x U/I/RTD/TC



1 x Analog
output module
AQ 4 x U/I ST



1 x Power supply
Input: 120/230 V AC
Output: 24 V DC, 8 A



4 x Front
connector 40-pin



1 x Memory
Card 24 MB



1 x ETHERNET
cable, 6 m



1 x S7-1500, mounting
rail 482 mm



STEP 7 Professional and
WinCC Advanced V17 SW
for training, 1er license

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

NOTE: SIMATIC STEP 7 Professional and Safety Advanced ≥ V13 SP1 Update 4 are absolutely necessary for configuration

SIMATIC CPU 1516 PN/DP with software

Orders before 09/2021
contain SW Status V16

- 1 x SIMATIC PM 1507 24 V/8 A stabilized power supply, input: 120/230 V AC, output: 24 V DC/8
- 1 x SIMATIC S7-1500, CPU 1516-3 PN/DP, central processing unit with 1 MB work memory for program and 5 MB for data,
 - 1st interface: PROFINET IRT with 2-port switch
 - 2nd interface: ETHERNET
 - 3rd interface: PROFIBUS, 10 ns bit performance, SIMATIC Memory Card required
- 1 x SIMATIC S7-1500, digital input module DI 32 x 24V DC, 32 channels in groups of 16
- 1 x SIMATIC S7-1500, digital output module DQ 32 X 24VDC/0.5 A; 32 channels
- 1 x SIMATIC S7-1500, analog input module AI 8 x U/I/RTD/TC, 8 channels in groups of 8
- 1 x SIMATIC S7-1500, analog output module AQ 4 x U/I ST; 4 channels in groups of 4
- 1 x SIMATIC S7-1500, mounting rail, 482 mm, incl. grounding screw, integrated DIN profile rail
- 1 x SIMATIC S7, Memory Card for S7-1X00 CPU/SINAMICS, 3.3 V FLASH, 24 MB
- 4 x SIMATIC S7-1500, front connector, screw-type, 40-pin
- 1 x SIMATIC NET, Industrial ETHERNET XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m
- 1 x STEP 7 Professional NS WinCC Advanced V17 SW for Training, 1er license

- 6EP1333-4BA00
- 6ES7516-3AN02-0AB0
- 6ES7521-1BL00-0AB0
- 6ES7522-1BL01-0AB0
- 6ES7531-7KF00-0AB0
- 6ES7532-5HD00-0AB0
- 6ES7590-1AE80-0AA0
- 6ES7954-8LF03-0AA0
- 6ES7592-1AM00-0XB0
- 6XV1870-3RH60
- 6ES7822-1AA07-4YA5

- IOT2000
- Industrial Controls
- Engineering SW
- SIMIT Simulation
- Basic Automation
- SIMATIC Controller
- Distributed IOs
- Operator control & monitoring
- Process Automation
- Industrial Communication
- Industrial Identification
- Drive Technology
- SinuTrain SW
- PLM Software
- WorldSkills
- Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	SIMATIC STEP 7 Professional V13 SP1 Update 4 required
Order number:	6ES7516-3AN00-4AB3

Upgrade SIMATIC S7-314C-2PN/DP for TIA Portal



1 x CPU314C-2 PN/DP
with 192 KB
work memory



1 x Digital module
SM 323, 16 DI and 16 DQ,
24 V DC, 0.5 A, 40-pin



1 x Micro Memory
Card 512 KB



3x Front connector
for SM, 40-pin



1 x ETHERNET
cable

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Upgrade SIMATIC S7-314C-2PN/DP for TIA Portal

- 1 x SIMATIC S7-300, CPU 314C-2PN/DP compact CPU with 192 KB work memory, 24 DI/16 DQ, 4AI, 2AQ, 1 PT100, 4 high speed counters (60 kHz), 1st interface MPI/DP 12 Mbps
2nd interface ETHERNET PROFINET, with 2-port switch, integrated 24 V DC power supply, front connector (2 x 40-pin) and Micro Memory Card required
- 1 x SIMATIC S7, Micro Memory Card for S7-300, 3.3 V NFlash, 512 KB
- 1 x SIMATIC S7-300, Digital Module SM 323, potential-separated, 16 DI and 16 DQ, 24 V DC, 0.5 A, total current 4 A, 1 x 40-pin
- 3 x SIMATIC S7-300, front connector 392 with screw contacts, 40-pin
- 1 x SIMATIC NET, Industrial ETHERNET XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

Recommended accessories
6GK1950-0BB00
Trainer Package:
FastConnect cable set

6ES7314-6EH04-0AB0

6ES7953-8LJ31-0AA0
6ES7323-1BL00-0AA0

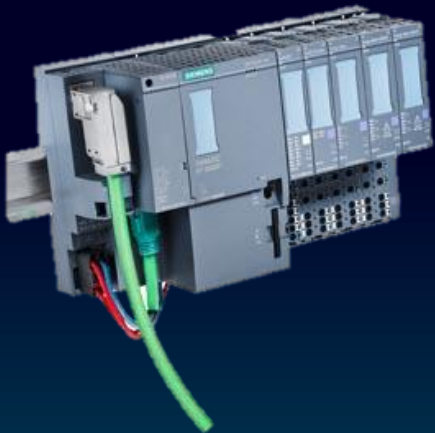
6ES7392-1AM00-0AA0
6XV1870-3RH60

- IOT2000
- Industrial Controls
- Engineering SW
- SIMIT Simulation
- Basic Automation
- SIMATIC Controller
- Distributed IOs
- Operator control & monitoring
- Process Automation
- Industrial Communication
- Industrial Identification
- Drive Technology
- SinuTrain SW
- PLM Software
- WorldSkills
- Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC	
Sales note:	Schools, colleges and universities, for in-house vocational training departments	
Technical note:	SIMATIC STEP 7 Professional as of V5.5 and as of V13 required	
Order number:	6ES7314-6EH04-4AB4	Available until September 2022

Distributed IOs

Overview



Product	HW sets	Licenses	SW version	Order number (MLFB)	Note
SIMATIC ET 200SP digital PROFINET	1			6ES7155-6AU00-0AB0	
SIMATIC ET 200SP digital with input module ENERGY METER PN	1			6ES7155-6AU00-0AB1	
SIMATIC ET 200SP digital with communication module IO-LINK MASTER V1.1 PN	1			6ES7155-6AU00-0AB2	
SIMATIC ET 200SP digital with communication module CM AS-i MASTER ST PN	1			6ES7155-6AU00-0AB3	
SIMATIC ET 200SP analog expansion module	1			6ES7155-6AU00-0AB6	
SIMATIC ET 200SP safety expansion module	1			6ES7136-6BA00-0AB1	

SIMATIC ET 200SP digital PROFINET



1 x IM 155-6 PN HF
incl. server module



BusAdapter



2 x DI 8x24V DC HF



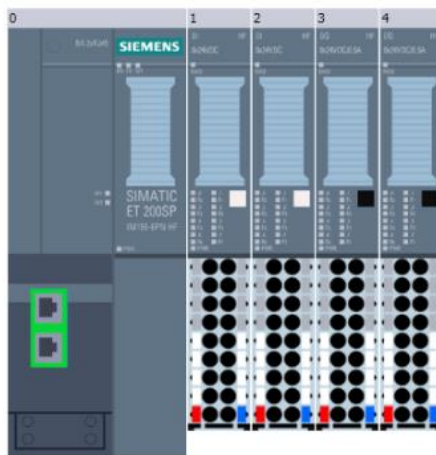
2 x DQ 8x24V DC/0.5A HF



4 x BaseUnits



Color-coded labels
Labeling strips



Recommended accessories

6XV1870-3RH60

SIMATIC NET Industrial ETHERNET, TP XP Cord
RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

6GK1950-0BB00

Trainer Package: FastConnect cable set

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC ET 200SP digital PROFINET

- 1 x Standard mounting rail 35 mm, length 483 mm for 19" cabinet
- 1 x IM155-6PN HF including server module
- 2 x DI 8x24VDC HF
- 2 x DQ 8x24V DC/0.5 A HF
- 1 x BusAdapter 2x RJ45
- 4 x BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog, max. 24 V DC/10 A)
- 1 x Color-coded labels, 16 process terminals, gray/red, CC01, 10 units
- 1 x Color-coded labels, 16 process terminals, gray/blue, CC02, 10 units
- 1 x 1000 labeling strips, light gray, 10 sheets DIN A4, perforated, paper

6ES5710-8MA11
6ES7155-6AU01-0CN0
6ES7131-6BF00-0CA0
6ES7132-6BF00-0CA0
6ES7193-6AR00-0AA0
6ES7193-6BP00-0DA0
6ES7193-6CP01-2MA0
6ES7193-6CP02-2MA0
6ES7193-6LA10-0AA0

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Expansions: ET 200SP F-technology 6ES7136-6BA00-0AB1 and/or ET 200SP analog modules: 6ES7155-6AU00-0AB6

System requirements:	None available
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	STEP 7 as of V5.5 and as of V13 required
Order number:	6ES7155-6AU00-0AB0

SIMATIC ET 200SP digital with Energy Meter input module PN



1 x IM 155-6 PN HF
incl. server module



BusAdapter



2 x DI 8x24V DC HF



2 x DQ 8x24V DC/
0.5A HF



4 x BaseUnits



Color-coded labels
Labeling strips



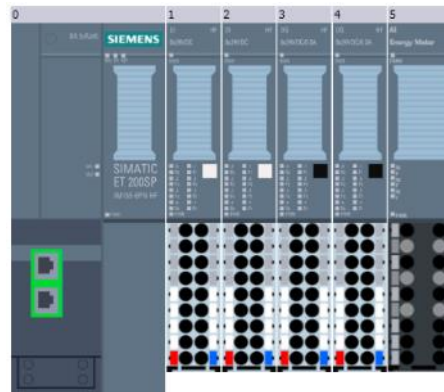
1 x Energy
Meter



1 x BaseUnit



1 x Shielding
terminals



Recommended accessories

6XV1870-3RH60

SIMATIC NET Industrial ETHERNET, TP XP Cord
RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

6GK1950-0BB00

Trainer Package: FastConnect cable set

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC ET 200SP digital with Energy Meter input module PN

- 1 x Standard mounting rail 35 mm, length 483 mm, for 19" cabinet
- 1 x IM155-6PN HF including server module
- 2 x DI 8x24VDC HF
- 2 x DQ 8x24VDC/0.5A HF
- 1 x BusAdapter 2x RJ45
- 4 x BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog, max. 24 V DC/10 A)
- 1 x Color-coded labels, 16 process terminals, gray/red, CC01, 10 units
- 1 x 1000 labeling strips, light gray, 10 sheets DIN A4, perforated, paper
- 1 x Color-coded labels, 16 process terminals, gray/blue, CC02, 10 units
- 1 x AI Energy Meter ST
- 1 x BaseUnit Push-in terminals, without AUX terminals, jumpered to left
- 1 x Shielding terminals, 5 units

- 6ES5710-8MA11
- 6ES7155-6AU01-0CN0
- 6ES7131-6BF00-0CA0
- 6ES7132-6BF00-0CA0
- 6ES7193-6AR00-0AA0
- 6ES7193-6BP00-0DA0
- 6ES7193-6CP01-2MA0
- 6ES7193-6LA10-0AA0
- 6ES7193-6CP02-2MA0
- 6ES7134-6PA20-0BD0
- 6ES7193-6BP00-0BD0
- 6ES7193-6SC00-1AM0

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Expansions: ET 200SP F-technology 6ES7136-6BA00-0AB1 and/or ET 200SP analog modules: 6ES7155-6AU00-0AB6

System requirements:	None available
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	STEP 7 as of V13 required
Order number:	6ES7155-6AU00-0AB1

SIMATIC ET 200SP digital with IO-Link communication module



1 x IM 155-6 PN HF
incl. server module



BusAdapter



2 x DI 8x24V DC HF



2 x DQ 8x24V DC/
0.5A HF



4 x BaseUnits



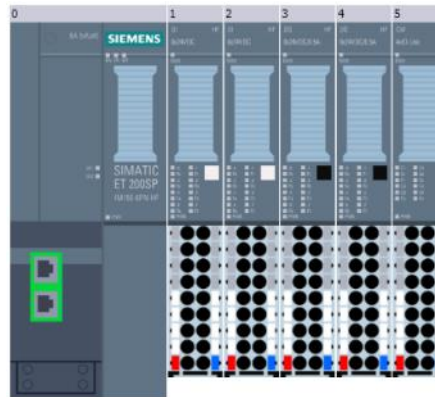
Color-coded labels
Labeling strips



1 x CM 4xIO-Link ST



1 x BaseUnit



Recommended accessories

6XV1870-3RH60

SIMATIC NET Industrial ETHERNET, TP XP Cord
RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

6GK1950-0BB00

Trainer Package: FastConnect cable set

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC ET 200SP digital with IO-Link communication module



- 1 x Standard mounting rail 35 mm, length 483 mm for 19" cabinet
- 1 x IM155-6PN HF including server module
- 2 x DI 8x24VDC HF
- 2 x DQ 8x24VDC/0.5A HF
- 1 x BusAdapter 2x RJ45
- 4 x BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog, max. 24 V DC/10 A)
- 1 x Color-coded labels, 16 process terminals, gray/red, CC01, 10 units
- 1 x 1000 labeling strips, light gray, 10 sheets DIN A4, perforated, paper
- 1 x Color-coded labels, 16 process terminals, gray/blue, CC02, 10 units
- 1 x BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog, max. 24 V DC/10 A)
- 1 x CM 4xIO-Link ST
- 1 x Color-coded labels, 16 process terminals, gray/blue, CC04, 10 units

- 6ES5710-8MA11
- 6ES7155-6AU01-0CN0
- 6ES7131-6BF00-0CA0
- 6ES7132-6BF00-0CA0
- 6ES7193-6AR00-0AA0
- 6ES7193-6BP00-0DA0
- 6ES7193-6CP01-2MA0
- 6ES7193-6LA10-0AA0
- 6ES7193-6CP02-2MA0
- 6ES7193-6BP00-0DA0
- 6ES7137-6BD00-0BA0
- 6ES7193-6CP04-2MA0

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Matching: Trainer Package SIRIUS Industrial Controls 3TK3388-0TP00

Expansions: ET 200SP F-technology 6ES7136-6BA00-0AB1 and/or ET 200SP analog modules: 6ES7155-6AU00-0AB6

System requirements:	None available	<div>Core product for vocational World Cup Industrial Control Z</div> <div> </div>
Sales note:	Schools, colleges and universities, for in-house vocational training departments	
Technical note:	STEP 7 as of V13 required	
Order number:	6ES7155-6AU00-0AB2	



SIMATIC ET 200SP digital with AS-i Master communication module



1 x IM 155-6 PN HF
incl. server module



BusAdapter



2 x DI 8x24V DC HF



2 x DQ 8x24V DC/
0.5A HF



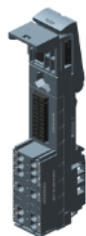
4 x BaseUnits



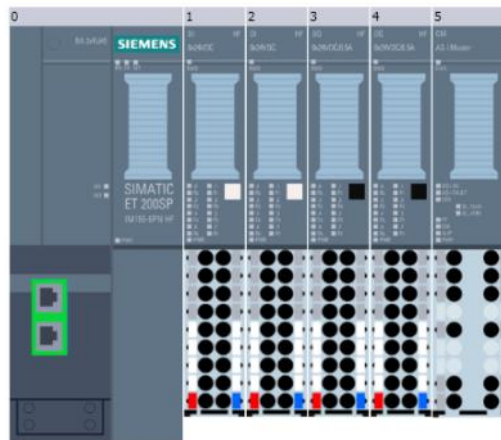
Color-coded labels
Labeling strips



1 x CM 4xIO-Link ST



1 x BaseUnit



Recommended accessories

6XV1870-3RH60

SIMATIC NET Industrial ETHERNET, TP XP Cord
RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

6GK1950-0BB00

Trainer Package: FastConnect cable set

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC ET 200SP digital with AS-i Master communication module

- 1 x standard mounting rail 35 mm, length 483 mm for 19" cabinet
- 1 x IM155-6PN HF including server module
- 2 x DI 8x24V DC HF
- 2 x DQ 8x24V DC/0.5A HF
- 1 x BusAdapter 2x RJ45
- 4 x BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog, max. 24 V DC/10 A)
- 1 x Color-coded labels, 16 process terminals, gray/red, CC01, 10 units
- 1 x 1000 labeling strips, light gray, 10 sheets DIN A4, perforated, paper
- 1 x Color-coded labels, 16 process terminals, gray/blue, CC02, 10 units
- 1 x CM AS-i Master ST ET 200SP (AS-i V3.0)
- 1 x BU type C0, BU20-P6+A2+4D

- 6ES5710-8MA11
- 6ES7155-6AU01-0CN0
- 6ES7131-6BF00-0CA0
- 6ES7132-6BF00-0CA0
- 6ES7193-6AR00-0AA0
- 6ES7193-6BP00-0DA0
- 6ES7193-6CP01-2MA0
- 6ES7193-6LA10-0AA0
- 6ES7193-6CP02-2MA0
- 3RK7137-6SA00-0BC1
- 6ES7193-6BP20-0DC0

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Expansions: ET 200SP F-technology 6ES7136-6BA00-0AB1 and/or ET 200SP analog modules: 6ES7155-6AU00-0AB6

System requirements:	None available
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	STEP 7 as of V13 required
Order number:	6ES7155-6AU00-0AB3

SIMATIC ET 200SP Analog module expansion

SIMATIC ET 200SP **analog module expansion** consisting of:

- 2 x AI 2xU/I 2-/4-wire HS
- 1 x AQ 2xU/I HS
- 3 x BU type A0, 16 push-in, 2 infeed terminals (digital/analog, max. 24 V DC/10A)
- 1 x Shielding terminals, 5 units
- 1 x Color-coded labels, 16 process terminals, gray/red/blue, CC03, 10 units



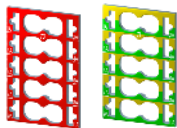
2 x AI 2xU/I
2-/4-wire HS



1 x AQ 2xU/I HS



5 x Shielding terminals

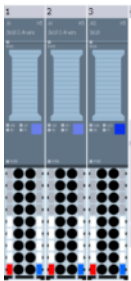


Color-coded labels



3 x BaseUnits

6ES7134-6HB00-0DA1
6ES7135-6HB00-0DA1
6ES7193-6BP00-0DA0
6ES7193-6SC00-1AM0
6ES7193-6CP03-2MA0



System requirements:	None available
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	STEP 7 as of V13 required
Order number:	6ES7155-6AU00-0AB6

Core product
for vocational
World Cup
Industrial
Control [↗](#)



- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC ET 200SP Safety module expansion

SIMATIC ET 200SP **safety module expansion** consisting of:

- 1 x Electronic module F-DI 8x24V DC HF
- 1 x Electronic module F-DQ 4x24V DC/2A PM HF
- 1 x Electronic module F-RQ 24VDC/24..230V AC/5A
- 2 x BaseUnits BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog, max. 24 V DC/10 A)
- 1 x BaseUnits BU type F0, push-in terminals, with 4 AUX terminals
- 1 x SIMATIC ET 200SP, 1000 labeling strips, yellow

6ES7136-6BA00-0CA0
6ES7136-6DB00-0CA0
6ES7136-6RA00-0BF0
6ES7193-6BP00-0DA0
6ES7193-6BP20-0BF0
6ES7193-6LA10-0AG0



System requirements:	None available
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	STEP 7 as of V13 required
Order number:	6ES7136-6BA00-0AB1

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Operator control & monitoring

Overview



Product	HW sets	Licenses	SW version	Order number (MLFB)	Note
SIMATIC MTP700 Unified Comfort Panel	1	1	V17	6AV2128-3GB06-4AB1	NEW ○
SIMATIC MTP1500 Unified Comfort Panel	1	1	V17	6AV2128-3QB06-4AB1	NEW ○
SIMATIC TP700 Comfort Color Panel – Available until 09/2022	1	1	V17	6AV2133-4AF00-0AA0	NEW ○
SIMATIC TP1500 Comfort Color Panel – Available until 09/2022	1	1	V17	6AV2133-4BF00-0AA0	NEW ○
SCADA system SIMATIC WinCC with options Only WIN10 (64-bit) Professional 1903/Enterprise 1903		6	V7.5 SP2	6AV6371-1DH07-5AX5	NEW
SCADA system SIMATIC WinCC with options – ASIA Only WIN10 (64-bit) Professional 1903/Enterprise 1903		6	V7.5 SP2	6AV6371-1DH07-5AV5	NEW
Upgrade SCADA system SIMATIC WinCC with options from V1.0 → Only WIN10 (64-bit) Professional 1903/Enterprise 1903		6	V7.5 SP2	6AV6381-1BP07-5AX3	NEW

○ Relevant Information: <https://support.industry.siemens.com/cs/de/en/view/65601780>

SIMATIC MTP700/MTP1500 Unified Comfort Panels with PROFINET

Orders before 09/2021
contain SW Status V16

1 x 7" SIMATIC HMI MTP700, Unified Comfort Panel
touch operation, 7" widescreen TFT display, 16 million colors, PROFINET interface,
configurable from WinCC Unified Comfort V16, contains open source software,
which is provided free of charge, see enclosed Blu-Ray

6AV2128-3GB06-0AX0

MTP 700 can be configured with WinCC Unified as of V16

Alternative:

1 x 15" SIMATIC HMI MTP1500, Unified Comfort Panel
touch operation, 15.6" widescreen TFT display, 16 million colors, PROFINET interface,
configurable from WinCC Unified Comfort V16, contains open source software,
which is provided free of charge, see enclosed Blu-Ray

6AV2128-3QB06-0AX0

MTP 1500 can be configured with WinCC Unified as of V16

Also included in the package:

1 x STEP 7 Professional and WinCC Unified V17 SW for Training, 1er license
1 x SIMATIC NET, Industrial ETHERNET XP Cord RJ45/RJ45, CAT 6 A,
crossed TP cable 4x2, length 6 m

6ES7822-1AA07-4YA5
6XV1870-3RH60



Totally
Integrated
Automation
PORTAL

Check HW compatibility
for TIA Portal [↗](#)



- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC	
Sales note:	Schools, colleges and universities, for in-house vocational training departments	
Technical note:	Authorization on USB stick	
Order number:	6AV2128-3GB06-4AB1 (with MTP700)	6AV2128-3QB06-4AB1 (with MTP1500)

Core product
for vocational
World Cup
Industrial
Control [↗](#)



SIMATIC TP700/TP1500 Comfort Panel

with PROFINET and MPI/PROFIBUS DP Interface

Orders before 09/2021
contain SW Status V16

1 x 7" SIMATIC TP700 Comfort, Touch Panel with
PROFINET and MPI/PROFIBUS DP INTERFACE (Panel with integrated switch with 2x RJ45 port)

6AV2124-0GC01-0AX0

TP 700 can be configured with WinCC Comfort, Advanced, Prof. as of V11 SP2

Alternative:

1 x 15" SIMATIC TP1500 Comfort, Touch Panel with
PROFINET and MPI/PROFIBUS DP INTERFACE (Panel with integrated switch with 2x RJ45 port)

6AV2124-0QC02-0AX1

TP 1500 can be configured with WinCC Comfort, Advanced, Prof. as of V14 SP1

Also included in the package:

1 x STEP 7 Professional WinCC Advanced V17 SW for Training, 1er license
1 x SIMATIC NET, Industrial ETHERNET XP Cord RJ45/RJ45, CAT 6 A,
crossed TP cable 4x2, length 6 m

6ES7822-1AA07-4YA5
6XV1870-3RH60

Available until September 2022

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC	
Sales note:	Schools, colleges and universities, for in-house vocational training departments	
Technical note:	Authorization on USB stick	
Order number:	6AV2133-4AF00-0AA0 (with TP700)	6AV2133-4BF00-0AA0 (with TP1500)



Totally
Integrated
Automation
PORTAL

Check HW compatibility
for TIA Portal [↗](#)



- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SCADA system SIMATIC WinCC V7.5 SP2 with options

6er classroom license

SCADA system SIMATIC WinCC V7.5 SP2 with options, additionally available as ASIA variant

- 6 x WinCC System software, RC 2048 (2048 Power Tags), Runtime/Configuration Software
- 6 x WinCC/User Archives
- 6 x WinCC/Connectivity Pack
- 6 x SIMATIC WinCC/Web Navigator, 3 Client Licenses (countable)
- 6 x SIMATIC WinCC/DataMonitor, 1 Client Licenses (countable)
- 6 x SIMATIC WinCC/Cloud Connect V7.5 SP2

Upgrade SCADA system SIMATIC WinCC with options from V1.0 to V7.5 SP2

- 6 x Upgrade WinCC System software, RC 2048 (2048 Power Tags), Runtime/Configuration Software
- 6 x Upgrade WinCC/User Archives
- 6 x Upgrade WinCC/Connectivity Pack
- 6 x Upgrade SIMATIC WinCC/Web Navigator, 3 client licenses (countable)
- 6 x Upgrade SIMATIC WinCC/DataMonitor, 1 client licenses (countable)
- 6 x SIMATIC WinCC/Cloud Connect V7.5 SP2

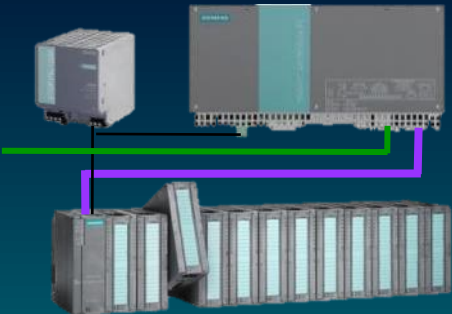
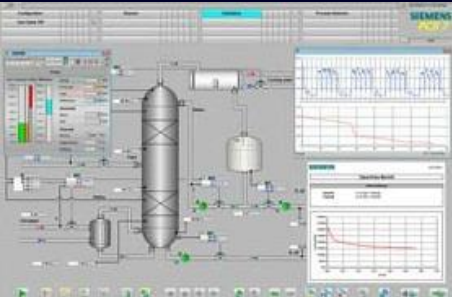


- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC		
Sales note:	Schools, colleges and universities, for in-house vocational training departments		
Technical note:	Authorization on USB stick		
Order number:	6AV6371-1DH07-5AX5	ASIA 6AV6371-1DH07-5AV5	Upgrade from V1.0,... to V7.5 SP2 6AV6381-1BP07-5AX3

Process automation

Overview



Product	HW sets	Licenses	SW version	Order number (MLFB)	Note
SIMATIC PCS 7		3	V9.1	6ES7650-0XX68-0YS5	NEW
Upgrade SIMATIC PCS 7 from V8.X →		3	V9.1	6ES7650-0XX68-0YE5	NEW
Upgrade SIMATIC PCS 7 from V9.0 →		3	V9.1	6ES7650-8XX68-0YE5	NEW
SIMATIC PCS 7		6	V9.1	6ES7650-0XX68-2YS5	NEW
SIMATIC CPU 410E Single	1			6ES7654-0UE23-0XS4	NEW
SITOP PSU6200 24V/20A, stabilized power supply				6EP3336-7SB00-3AX0	NEW
SIMATIC ET 200SP HA	1			6ES7654-0UE23-0XS3	NEW

Relevant Information: <https://support.industry.siemens.com/cs/de/en/view/65601780>

Process control system SIMATIC PCS 7

Software licenses

3er license / 3er upgrade:

- 1 x DVD: PCS 7 software V9.1
- 1 x Paper: Certificate of License (A5E00276662)
- 1 x Stick: License key USB stick with 3 * floating licenses

6er license:

- 2 x SIMATIC PCS 7 – 3er license



6ES7650-0XX68-0YS5

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	Microsoft Windows 10 (64-bit) Enterprise LTSC 2019 Microsoft Windows Server 2019 (64-bit) Standard / Datacenter			
Sales note:	Schools, colleges and universities, for in-house vocational training departments			
Technical note:	Authorization on USB stick			
Order number:	3er license	3er upgrade	3er upgrade	6er license
	6ES7650-0XX68-0YS5	from V9.0 to V9.1 6ES7650-8XX68-0YE5	from V8.x to 9.1 6ES7650-0XX68-0YE5	6ES7650-0XX68-2YS5

Process Control System SIMATIC PCS 7 Hardware

Packaging:

- 1 x SIMATIC PCS 7 AS SIMATIC CPU 410E Single ...
- 1 x SIMATIC ET 200SP HA – Station with IO modules...
- Details: [See following slides](#)

Note:

- PCS 7 software licenses must be purchased separately, [see previous slide](#)
- SITOP power supply 20A and SIMATIC NET Industrial ETHERNET TP XP Cord RJ45/RJ45 must be purchased separately
- 2 x 6XV1870-3RH60 Industrial ETHERNET TP XP Cord RJ45/RJ45, CAT 6A, crossed TP cable 4x2, assembled with 2 RJ45 plugs, length 6 m
- 1 x 6EP3336-7SB00-3AX0 SITOP PSU6200 24 V/20 A stabilized power supply
input: 120 ... 230 V AC (110 ... 240 V DC) Output: 24 V DC/20 A with diagnostics interface



NOTE: The PCS 7 AS Hardware Trainer Package consists of two sub-packages. These must be ordered together. Separation is necessary for logistical reasons.

System requirements:	Microsoft Windows 10 (64-bit) Enterprise LTSC 2019 Microsoft Windows Server 2019 (64-bit) Standard / Datacenter
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	See above
Order number:	6ES7654-0UE23-0XS4 + 6ES7654-0UE23-0XS3

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC PCS 7 AS CPU 410E Single (PROFINET) 6ES7654-0UE23-0XS4

can only be ordered in combination with SIMATIC ET 200SP HA (PROFINET) 6ES7654-0UE23-0XS3

→ See next slide

1 x	SIMATIC PCS 7, CPU 410E Process Automation, central processing unit for S7-400 and S7-400H/F/FH, 5 interfaces: 2x PN, 1x DP, 2x for sync modules for using as spare part, without System Expansion Card	6ES7410-5HM08-0AB0	▶ IOT2000
1 x	SIMATIC PCS 7 System Expansion Card up to 200 process objects only for PCS 7 CPU 410E	6ES7653-2CB00-0XB0	▶ Industrial Controls
1 x	SIMATIC PCS 7, CR3 XTR S7-400 rack central with 4 slots for extended temperature range and with conformal coating	6ES7401-1DA01-0AA1	▶ Engineering SW
1 x	SIMATIC PCS 7, PS 405 4A XTR S7-400 power supply wide range, 24/48/60 V DC; 5 V DC/4 A, for extended temperature range and with conformal coating	6ES7405-0DA02-0AA1	▶ SIMIT Simulation
1 x	SIMATIC PCS 7, software, Runtime license AS (PO 100), floating license for 1 user R-SW, without SW, without documentation, License key on USB stick, Class A, Reference HW: PCS 7 IPC bundle, PCS 7 Box bundle	6ES7653-2BA00-0XB5	▶ Basic Automation
1 x	SIMATIC S7, software, F-systems, Runtime license license; copy license for 2 installations per AS; Reference HW: SIMATIC S7-400F/FH, Content: 2 certificates + 2 stickers	6ES7833-1CC00-6YX0	▶ SIMATIC Controller
1 x	SIMATIC S7-400, backup battery 3.6 V/2.3 AH for PS 405 4 A/10 A/20 A and PS 407 4 A/10 A/20 A for extended temperature range	6ES7971-0BA02	▶ Distributed IOs
			▶ Operator control & monitoring
			▶ Process Automation
			▶ Industrial Communication
			▶ Industrial Identification
			▶ Drive Technology
			▶ SinuTrain SW
			▶ PLM Software
			▶ WorldSkills
			▶ Ordering Inform.

NOTE: The SIMATIC PCS 7 AS CPU 410E Single (PROFINET) must be ordered in combination with the package SIMATIC ET 200SP HA (PROFINET). See next slide.

SIMATIC ET 200SP HA (PROFINET) 6ES7654-0UE23-0XS3 for RTX Box (PROFINET) only in combination with SIMATIC PCS 7 AS CPU 410E Single (PROFINET) 6ES7654-0UE23-0XS4

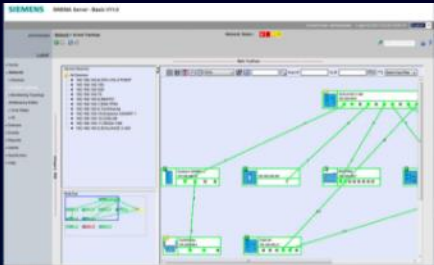
→ See previous slide

1 x SIMATIC ET 200SP HA, carrier module in single carrier for holding one interface module of the ET 200SP HA incl. server module	6DL1193-6BH00-0SM0	
1 x SIMATIC ET 200SP HA, BusAdapter BA 2xRJ45, 2 RJ45 sockets for PROFINET	6DL1193-6AR00-0AA0	
2 x SIMATIC ET 200SP HA, carrier module 8-fold carrier for holding 8 I/O modules of the ET 200SP HA	6DL1193-6GC00-0NN0	► IOT2000
4 x SIMATIC ET 200SP HA, digital input module, DI 16X24VDC HA, suitable for terminal block H1, M1, color code CC01, channel diagnostics	6DL1131-6BH00-0PH1	► Industrial Controls
2 x SIMATIC ET 200SP HA, digital input module, DI 32X24VDC HA, suitable for terminal block, H1, P0, color code CC00, channel diagnostics	6DL1131-6BL00-0PH1	► Engineering SW
2 x SIMATIC ET 200SP HA, digital output module, DQ 16X24VDC/0,5A HA, suitable for terminal block, H1, M1, color code CC02, channel diagnostics	6DL1132-6BH00-0PH1	► SIMIT Simulation
1 x SIMATIC ET 200SP HA, digital output module, DQ 32X24VDC/0.5A HA, suitable for terminal block, H1, N0, color code CC00, channel diagnostics	6DL1132-6BL00-0PH1	► Basic Automation
1 x SIMATIC ET 200SP HA, analog HART input module, AI 16XI 2-wire HART HA, suitable for terminal block H1, M1, color code CC01, channel diagnostics, 16-bit, +/-0.1%,	6DL1134-6TH00-0PH1	► SIMATIC Controller
1 x SIMATIC ET 200SP HA, configurable I/O module, AI-DI16/DQ16X24VDC HART, suitable for terminal block H1, M1, color code CC00, channel diagnostics, 16-bit, +/-0.1%,	6DL1133-6EW00-0PH1	► Distributed IOs
1 x SIMATIC ET 200SP HA, analog input module, AI 16XTC/8XRTD 2-/3-/4-wire HA, suitable for terminal block H1, M1, color code CC00, channel diagnostics, 16-bit, +/-0.05%, 2-/3-/4-wire	6DL1134-6JH00-0PH1	► Operator control & monitoring
1 x SIMATIC ET 200SP HA, analog output module, AQ 8XI HART HA suitable for terminal block H1, M1, color code CC00, channel diagnostics, 16-bit, +/-0.1%	6DL1135-6TF00-0PH1	► Process Automation
1 x SIMATIC ET 200SP HA, terminal block, type H1, 32 push-in terminals, internal reference temperature. New load group, width: 22.5 mm	6DL1193-6TP00-0DH1	► Industrial Communication
7 x SIMATIC ET 200SP HA, terminal block, type H1, 32 push-in terminals, internal reference temperature. Width: 22.5 mm	6DL1193-6TP00-0BH1	► Industrial Identification
1 x SIMATIC ET 200SP HA, terminal block, type M1, 32 push-in terminals, internal reference temperature. Width: 45 mm	6DL1193-6TP00-0BM	► Drive Technology
1 x SIMATIC ET 200SP HA, terminal block, type P0, 64 push-in terminals, width: 45 mm	6DL1193-6TP00-0DP0	► SinuTrain SW
1 x SIMATIC ET 200SP HA, terminal block, type P0, 64 push-in terminals, width: 45 mm	6DL1193-6TP00-0BP0	► PLM Software
1 x SIMATIC ET 200SP HA, terminal block, type N0, 64 push-in terminals, width: 45 mm	6DL1193-6TP00-0DN0	► WorldSkills
		► Ordering Inform.

NOTE: The Trainer Package SIMATIC ET 200SP HA (PROFINET) must be ordered in combination with SIMATIC PCS 7 AS CPU 410E Single (PROFINET). See previous slide.

Industrial communication

Overview



Product	HW sets	Licenses	SW version	Order number (MLFB)	Note
SIMATIC NET SINEC NMS 50 V.1		6	V1.0	6GK1950-0BB06	NEW ○
FASTCONNECT Cable Set	1			6GK1950-0BB00	
IE SCALANCE switch XC208	1			6GK1950-0BB12	○
IE SCALANCE S615 with Software SINEMA RC Basic	1	1		6GK1950-0BB13	○
IE SCALANCE S615 LAN router	2			6GK1950-0BB23	○
Development Kit PROFINET	1			6ES7195-3BE00-4AB1	


○ Relevant Information: <https://support.industry.siemens.com/cs/de/en/view/65601780>

SINEC NMS 50 V1.0

6 x SINEC NMS 50 V1.0

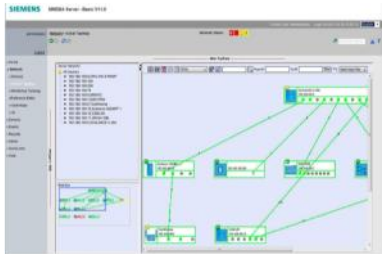
SINEC NMS 50 V1.0. Type of delivery: DVD. Network management software for administration of industrial networks, monitoring, network configuration, license type: single. Monitorable IP devices: 50. Windows 10 Version 1709 (64-bit), Windows Server 2016 and 2019 Version 1607 (64-bit)

6GK8781-1BA01-0AA0



Totally Integrated Automation
PORTAL

Check HW compatibility
for TIA Portal [↗](#)



- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Authorization on USB stick
Order number:	6GK1950-0BB06

FASTCONNECT cable set



1 x FastConnect
Stripping tool



2 X SIMATIC NET
IE FC RJ45
Plug connector



4 x SIMATIC NET
IE FC RJ45 PLUG 90 2X2, RJ45
Plug connector



1 x SIMATIC NET IE FC M12
PLUG PRO M12
Plug connector



1x M12
Cable connector



1 x 50 meter, GP 2X2 TP
Installation cable



2x SIMATIC NET,
Industrial ETHERNET

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

FASTCONNECT cable set

- 1 x FastConnect stripping tool
- 2 x SIMATIC NET IE FC RJ45 plug connector (10/100MBPS) with rugged metal housing and FC connecting method for IE FC cable 2x2, 180 degree cable outlet, 1 pack = 10 pcs
- 4 x SIMATIC NET IE FC RJ45 Plug 90 2x2, RJ45 plug connector (10/100 MBPS) with rugged metal housing and FC connecting method for IE FC cable 2X2 90 degree cable outlet, 1 pack = 1 pcs
- 1 x SIMATIC NET IE FC M12 Plug Pro M12 plug connector with axial cable outlet
1 pack = 8 pcs for SCALANCE X208 PRO and ET 200 PRO PN
- 1 x M12 cable connection per socket for connection of SCALANCE W-700/X208PRO for 24 V DC voltage supply, 3 pcs.
- 1 x 50 m flexible cable, GP 2x2 TP installation cable with flexible strand, PROFINET Type B, 4-wire
- 2 x SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

6GK1901-1GA00

6GK1901-1BB10-2AB0

6GK1901-1BB20-2AA0

6GK1901-0DB20-6AA8

6GK1907-0DC10-6AA3

6XV1870-2B

6XV1870-3RH60

- IOT2000
- Industrial Controls
- Engineering SW
- SIMIT Simulation
- Basic Automation
- SIMATIC Controller
- Distributed IOs
- Operator control & monitoring
- Process Automation
- Industrial Communication
- Industrial Identification
- Drive Technology
- SinuTrain SW
- PLM Software
- WorldSkills
- Ordering Inform.

Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	None available
Order number:	6GK1950-0BB00

IE SCALANCE switch XC208/SIMATIC NET

1 x SCALANCE XC208

SCALANCE XC208 managed layer 2 IE switch; 8x 10/100 Mbps RJ45 ports; 1x console port; diagnostics LED; redundant power supply; temperature range -40 °C to +70 °C; mounting: DIN rail/S7 mounting rail/wall Office redundancy functions features (RSTP, VLAN,...); PROFINET IO device ETHERNET/IP-compliant C-plug slot

6GK5208-0BA00-2AC2



1 x SIMATIC NET, C-PLUG

Removable data storage medium for simple device replacement in case of fault, for recording configuration or configuration and application data

6GK1900-0AB00

Recommended accessories		
6XV1870-3RH60 Industrial Ethernet TP XP Cord RJ45/RJ45, CAT 6A, crossed TP cable 4x2, pre-assembled with 2 RJ45 connectors, length 6 m	6GK5 980-3BB00-0AA5 Serial cable RJ11/RS232; pre-assembled serial cable with RJ11 and RS232 connector; length 3 m; 1 pack = 1 unit spare part	6GK1950-0BB00 Trainer Package: FastConnect cable set



System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC	<div>Core product for vocational World Cup Industrial Control </div> <div></div>
Sales note:	Schools, colleges and universities, for in-house vocational training departments	
Technical note:	None available	
Order number:	6GK1950-0BB12	

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC NET Industrial Security Switch Technologies – IE SCALANCE S615 with SINEMA RC basic software

1 x **SIMATIC NET SCALANCE S615 LAN ROUTER**

For protection of devices/networks in automation technology and for protection of industrial communication by VPN and firewall; additional functions: address conversion (NAT/NAPT), connection to SINEMA RC, 5-port switch, 1 x digital input, 1 x digital output

1 x **SINEMA Remote Connect Virtual Appliance**; basic software package for 4 VPN connections. User, device, group management; certificate management; autoconfiguration interface SINEMA RC client: for 1 installation. Software, documentation on DVD; license key on USB flash drive; 2 languages (de, en)

1 x **SINEMA RC Client V3 for 8 installations**; Software, documentation on DVD, license key for server; 3 languages (de, en, zh), Windows 10 Pro, Windows Server 2008, 2012 R2, 2016, 2019 (64-bit)

1 x **SINEMA RC Upgrade 64** Upgrade by 64 VPN connections, only license

1 x **KEY-PLUG SINEMA RC**, Removable data storage medium for enabling the connection to SINEMA Remote Connect for S615 and SCALANCE M for simple device replacement in the event of a fault and for recording configuration data

1 x **SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45**, CAT 6 A, crossed TP cable 4X2, length 6 m



6GK5615-0AA00-2AA2



6GK1720-1AH01-0BV0

6GK1721-1XG03-4AB1



6GK1722-1JH01-0BV0
6GK5908-0PB00

6XV1870-3RH60

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	None available
Order number:	6GK1950-0BB13

SIMATIC NET Industrial Security Switch Technologies – IE SCALANCE S615 LAN router

- 2 x **SIMATIC NET SCALANCE S615 LAN ROUTER**
SCALANCE S615 LAN router; for protection of devices/networks in automation technology and for protection of industrial communication by VPN and firewall; additional functions: address conversion (NAT/NAPT), connection to SINEMA RC, 5-port switch, 1 x digital input, 1 x digital output
- 2 x **KEY-PLUG SINEMA RC**, removable data storage medium for enabling the connection to SINEMA Remote Connect for S615 and SCALANCE M for simple device replacement in the event of fault and for recording configuration data



6GK5615-0AA00-2AA2

6GK5908-0PB00

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	None available
Order number:	6GK1950-0BB23

Development Kit – PROFINET & PROFISAFE

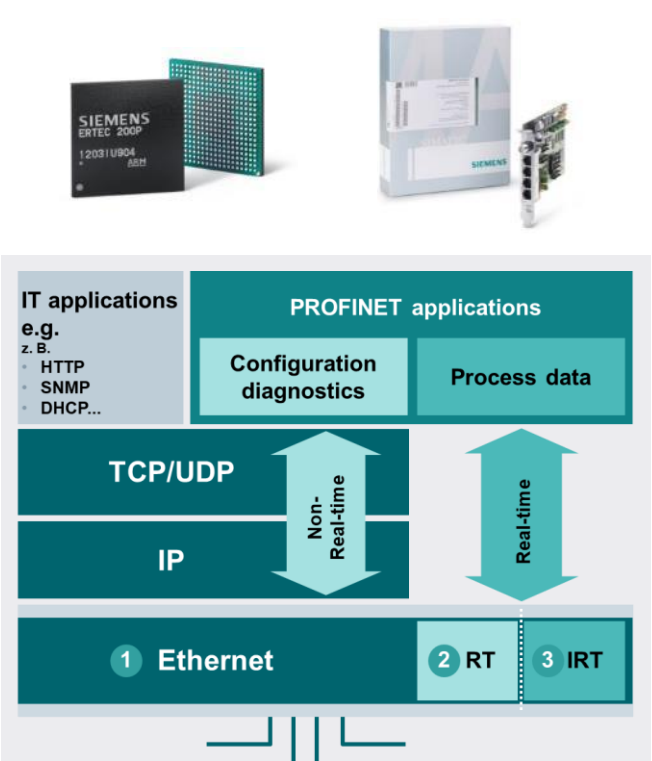
- 1 x EK-ERTEC 200P PN IO evaluation kit for PN IO, device based on ERTEC 200P Evaluation Board EB 200P, example software, documentation

6ES7195-3BE00-0YA0
- 1 x PROFINET driver for controller, development package for PROFINET IO controller V2.1, on CD-ROM, source code with example implementation, IRT controller in connection with CP1625 Dev. (to be ordered separately)

6ES7195-3AA00-0YA0
- 1 x PROFIsafe starter kit V3.5 according to PROFIsafe profile V2.6.1

6ES7195-3BF03-0YA0
- 1 x SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

6XV1870-3RH60

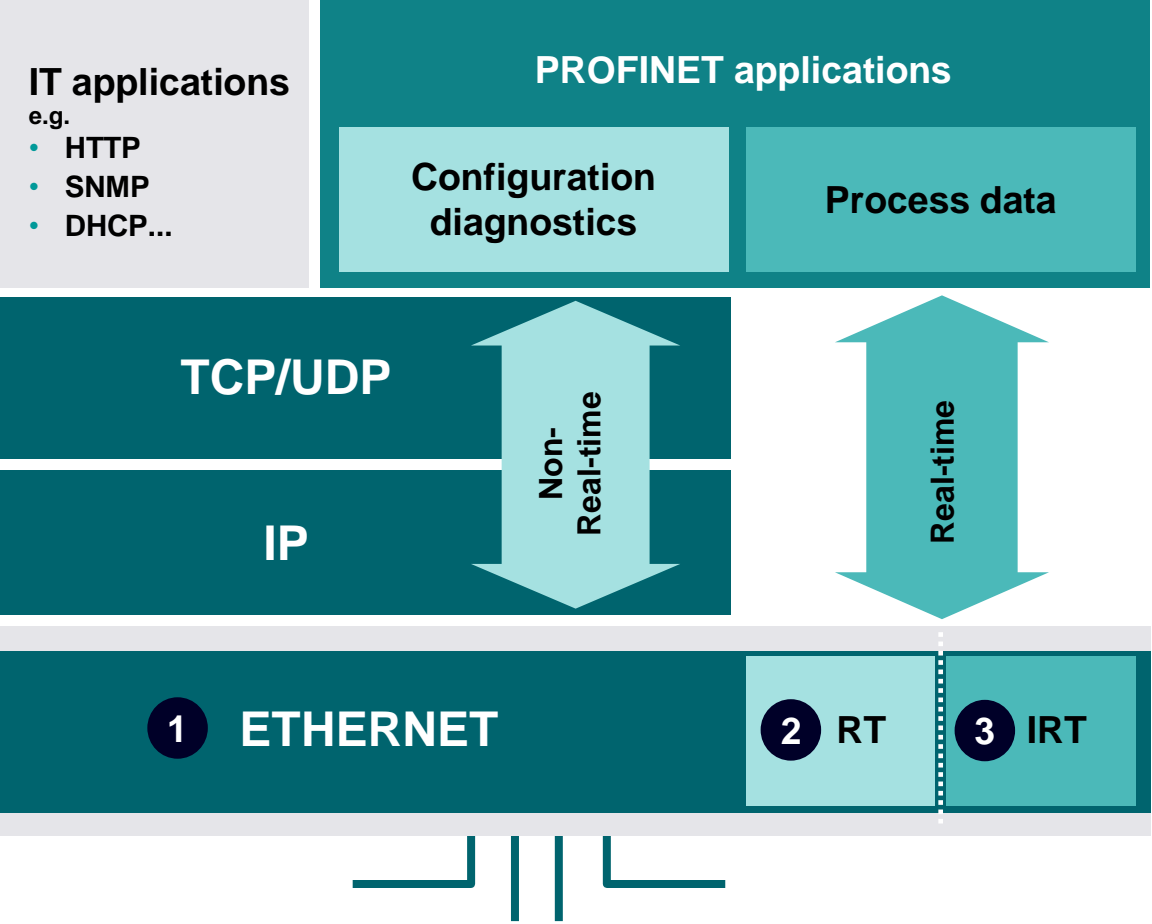


- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Support by ComDeC – Communication, Development & Certification
Order number:	6ES7195-3BE00-4AB1

Development Kit – PROFINET & PROFISAFE

The PROFINET stack

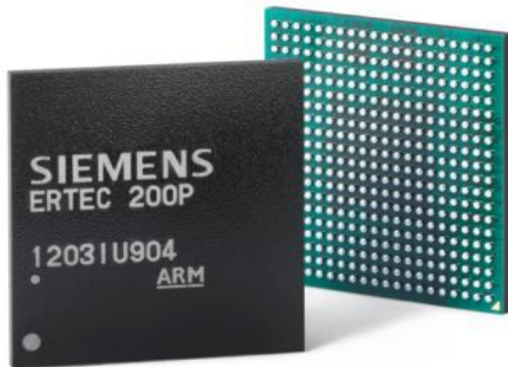


- 1 TCP/IP (IEEE802.3)**
 - Parameter assignment and configuration
 - Diagnostic data
 - Send authorization for user data channel
- 2 Real-time (RT)**
 - Cyclic high-performance transfer (up to 1 ms cycle time) of user data
 - Event-dependent messages/warnings
- 3 Isochronous real-time (IRT)**
 - Cyclic synchronous transfer of user data
 - Hardware support from ERTEC
 - Jitter < 1 µsec

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
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- ▶ Ordering Inform.

Development Kit – PROFINET & PROFISAFE

Evaluation Kit for ERTEC 200P-2



High speed with the ERTEC 200P-2

- Support of performance upgrade from PROFINET according to specification V2.3
→ Cycle times as fast as **31.25 µs** achievable
(Eval Kit V4.5 enables 125 µs)
- **Isochronous** connection of applications to PROFINET
- **ARM 926** with **250 MHz** for demanding applications

Fast start in development with Evaluation Kit

- Complete PROFINET stack in **source code**
- **Evaluation board** for ERTEC 200P-2 (EB 200P)
- **Application examples** based on ERTEC 200P-2
- License-free **development tools** and **real-time operating system** eCos

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
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- ▶ WorldSkills
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Development Kit – PROFINET & PROFISAFE

PROFIsafe Starter Kit



Advantages

- The Development Kit supports the development of a **PROFIsafe** field device based on **PROFINET**
- The PROFIsafe Starter Kit V3.5 **complies with V2.6.1** of the **PROFIsafe profile**, specified in IEC 61784-3.
- Meets a range of user requirements such as signal-specific passivation and watchdog expansion for configuration in run

Contents

- Current PROFIsafe specification
- PROFIsafe driver software (PSD) with PROFIsafe certificate
- CRC calculation tools
- iPar Server function block (software and instructions)
- Verify code
- Programming manual and PROFIsafe manual
- Sample application

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
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- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Development Kit – PROFINET & PROFISAFE

The PROFINET Driver for controllers



Key features

- Support of PROFINET with RT (cycle time down to 1 ms) when using a real-time operating system
- Example implementation for Windows (cycle time down to 32 ms)
- Example implementation for SIMATIC IPC hardware
- XML interface for configuration

Scope of delivery

Product CD

- Source code of the PROFINET driver for controllers on CD
- Documentation

Customer Support Portal

- HSP for TIA Portal
- Further tools for development tools (a.o. trace)

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
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- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Industrial identification

Overview



Product	HW sets	Licenses	SW version	Order number (MLFB)	Note
SIMATIC MV540 S code reader PROFINET – no shape recognition	1			6GF3500-1TP03	NEW
SIMATIC RF200 RFID system PROFINET	1			6GT2096-3AA00-0AA1	NEW
SIMATIC RF200 RFID system IO-Link	1			6GT2096-5AA00-0AA0	
SIMATIC RF300 RFID system PROFINET	1			6GT2096-1AA00-0AA1	NEW
SIMATIC RF600 RFID system PROFINET	1			6GT2811-6CC10-0XB0	NEW

Relevant Information: <https://support.industry.siemens.com/cs/de/en/view/65601780>

SIMATIC MV540 HR optical reader PROFINET



1 x MV440 optical reader



1 x Lens 25 mm



Built-in ring light



1 x Text-Genius Plus
OCR License
Note: Licenses can only
be used from mid-2023



1 x PAT-Genius License
Note: Licenses can only
be used from mid-2023



1 x Mounting plate



1 x Protection tube for lens



1 x Power data cable



1 x IE cable

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC MV540 S HR optical reader PROFINET

1 x SIMATIC MV540 H optical reader; resolution: 800 x 600 pixels; function: 1D/2D code reading; Image field and distance: variable, (depends on lens); PoE; IP67 with 6GF3540-8ADxx; delivery: Reader and SD card adapter	6GF3540-0CD10
1 x MV440-MV500 mounting plate; material: stainless steel (4 mm), versatile use	6GF3440-8CA
1 x MINI-CX lens 25 mm, E-focus for MV500 devices	6GF3540-8EA03-0LL0
1 x D65 lens protection metal glass, degree of protection IP67 for MV440 and MV540 devices	6GF3440-8AC11
1 x Built-in ring light MV540 red multi for MV540 devices; incl. cross-polarization filter; lighting range up to 120 cm	6GF3540-8DA13
1 x Power-IO-DATA cable MV500 10 m for MV540 devices; M12 – 12-pin socket pre-assembled at one end, 10 m	6GF3500-8BA21
1x IE connecting cable M12-90/IE FastConnect RJ45 plug 145, length 10 m	6XV1870-8GN10
1 x IE FastConnect RJ45 plug 90 2x2, RJ45 plug connector (10/100 Mbps) with rugged metal enclosure and FC connection system for IE FC cable 2x 2; 180° cable outlet	6GK1901-1BB10-2AA0
1 x OCR license for MV440/MV540 code reading systems; Single license	6GF3400-1SL01 *)
1 x Pat-Genius; object detection license for MV500 and MV400, single license	6GF3400-0SL03 *)

*) Licenses can only be used from mid-2023

Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Parameter assignment with Web-based user interface, browser (as of IE5.5), JAVA-VM (MS, SUN)
Order number:	6GF3500-1TP03

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
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- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC RF200 RFID system PROFINET



2 x RF200 Reader
RF240R



1 x RFID Communication
Module RF186CI



1 x Power M12
cable connector



1 x IE Connecting
cable M12-180/IE FC RJ45



2 x SIMATIC RF,
MV connecting cable



5 x Transponder MDS
D428 for RF200/RF300

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC RF200 RFID system PROFINET

2 x SIMATIC RF200 reader RF240R; RS422 interface (3964R); IP67, -25 to +70 °C; 50x 50x 30 mm; with integrated antenna	6GT2821-4AC10
1 x RFID communication module RF186CI for PROFINET; ETHERNET, 2 readers can be connected; DI/DO interface	6GT2002-0JE50
1 x Power M12 cable connector PRO axial cable outlet for field assembly, socket insert L-coded (socket)	6GK1906-0EB00
1 x IE connecting cable M12-180/IE FC RJ45 Plug-145; IE FC trailing cable GP pre-assembled with M12 connector (D-coded) and IE FC RJ45 plug; length 2.0 m	6XV1871-5TH20
2 x SIMATIC RF, MV plug-in cable, assembled, between ASM 456, RF160C, RF170C, RF18XC and reader or extension cable for ASM 456, RF160C, RF170C, RF18XC with RF, MV, MOBY PUR, trailing, length 2 m	6GT2891-4FH20
5 x Transponder MDS D428 for RF200/RF300 ISO/MOBY D Screw transponder M8 long; ISO 15693, Chip type FUJITSU MB89R118, 2000 byte FRAM user memory 24x 20 mm (DxH); SW22	6GT2600-4AK00-0AX0

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	None available
Order number:	6GT2096-3AA00-0AA1

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC RF200 RFID system IO-Link

- 2 x SIMATIC RF200 reader RF210R IO-Link interface V1.1; IP67, -25 to +70 °C; M18x 83 mm; with integrated antenna 32 bytes IO; 230 Kbps

6GT2821-1BC32
- 2 x SIMATIC RF IO-Link connecting cable, assembled, between IO-Link master and reader, M12 4-pin and open end, PUR, length 5m

6GT2891-4LH50
- 5 x Transponder MDS D428 for RF200/RF300 ISO/MOBY D screw transponder M8 long; ISO 15693, chip type FUJITSU MB89R118, 2000 byte FRAM user memory 24x 20 mm (DxH); SW22

6GT2600-4AK00-0AX0



2 x SIMATIC RF200 reader
RF210R IO-Link interface



2 x Connecting cable
SIMATIC RF IO-Link

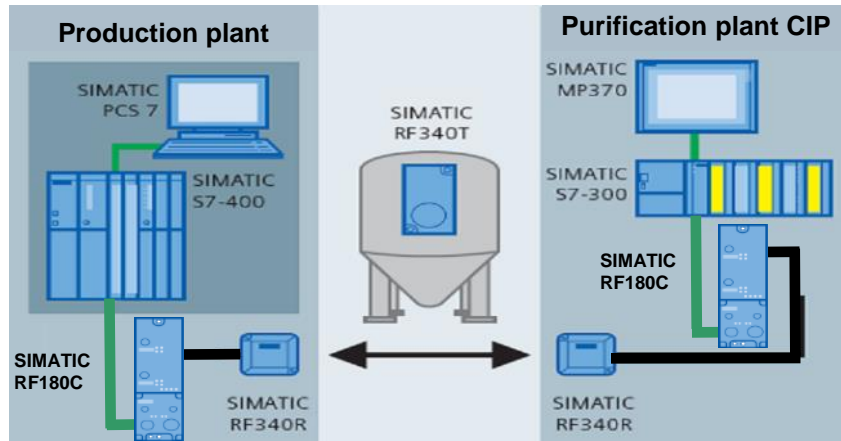


5 x Transponder MDS D428

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	None available
Order number:	6GT2096-5AA00-0AA0

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC RF300 RFID system PROFINET



Tank monitoring by RFID nameplates,
documentation of process data



1 x RFID Communication
Module RF186CI for
PROFINET/ETHERNET



2 x SIMATIC RF,
MV plug-in cable



1 x Power M12
cable connector



1 x IE connecting
cable M12-180/IE FC RJ45



2 x SIMATIC RF300;
Reader RF310R (GEN2)



5 x SIMATIC RF300
Transponder RF340T

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
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- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC RF300 RFID system PROFINET

1 x	RFID communication module RF186CI for PROFINET; ETHERNET, 2 readers can be connected; DI/DO interface	6GT2002-0JE50
2 x	SIMATIC RF, MV plug-in cable, assembled, between ASM 456, RF160C, RF170C, RF18XC and reader or extension cable for ASM 456, RF160C, RF170C, RF18XC with RF, MV, MOBY PUR, trailing, length 2 m	6GT2891-4FH20
1 x	Power M12 cable connector PRO axial cable outlet for field assembly, socket insert, L-coded (socket)	6GK1906-0EB00
1 x	IE connecting cable M12-180/IE FC RJ45 Plug-145; IE FC trailing cable GP pre-assembled with M12 connector (D-coded) and IE FC RJ45 plug; Length 2.0 m	6XV1871-5TH20
2 x	SIMATIC RF300; reader RF310R (GEN2); RS422 interface (3964R); IP67. -25 to +70 °C, 55x 75x 30 mm, with integrated antenna	6GT2801-1BA10
5 x	SIMATIC RF300 transponder RF340T 8 KB FRAM, IP67/X9K, -25 to +85 °C, 48x2 5x 15 mm	6GT2800-4BB00

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
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- ▶ SIMATIC Controller
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- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	None available
Order number:	6GT2096-1AA00-0AA1

SIMATIC RF600 RFID system PROFINET



2 x SIMATIC RF615R
Reader 133x155x45mm
with internal antenna



2 x SIMATIC RF642A
Antenna 185x185x47mm



20 x SIMATIC RF645T
Transponder with
mounting cover

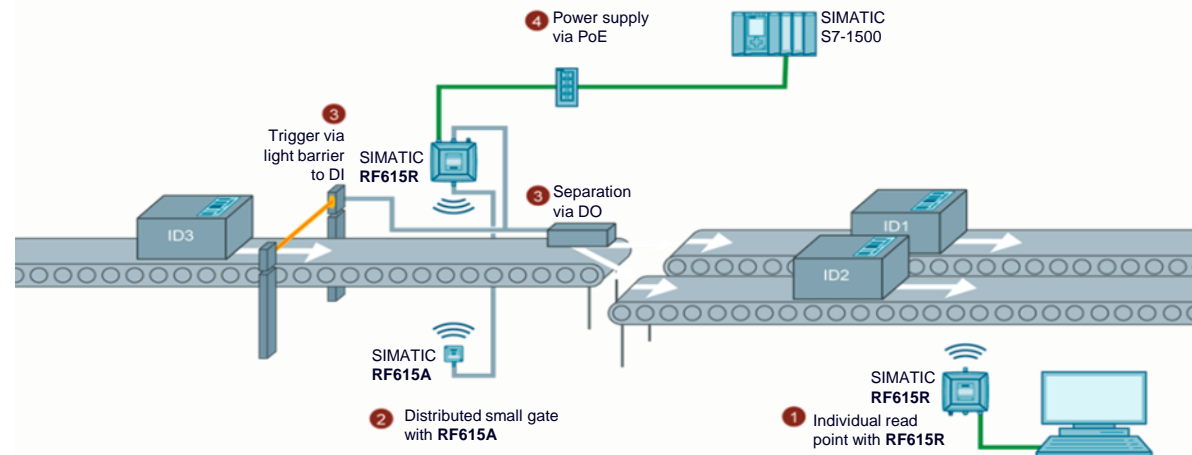


1 x Wide-range power
supply for connecting up to
2 readers, EU power cable



2 x Power supply cable
to reader, 24 V, 5 m
2 x Industrial ETHERNET cable, 5 m
2 x Antenna cable, 5 m

Application: Identification of similar goods in conveyor systems;
local reaction to read events



- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SIMATIC RF600 RFID system PROFINET

- 2 x UHF RFID reader RF615R ETSI with internal antenna
- 2 x UHF RFID antenna RF642A
- 4 x Mounting for RF600 readers and antennas
- 1 x Wide-range power supply for connecting 2 RF600 readers
- 1 x Power cable for wide-range power supply
- 2 x Power supply cable for RF600 reader, 24 V, 5 m
- 2 x Industrial ETHERNET line, M12, RJ45, 5 m
- 2 x Antenna cable UHF RFID, 5 m, trailing
- 20 x UHF RFID transponder RF645T, mountable directly on metal
- 20 x Mounting cover for RF645T

- 6GT2811-6CC10-0AA0
- 6GT2812-1GA08
- 6GT2890-2AB10
- 6GT2898-0AC81
- 6GT2898-0AC01
- 6GT2891-0PH50
- 6XV1871-5TH50
- 6GT2815-2BH50
- 6GT2810-2HC05
- 6GT2898-5AA00

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	None available
Order number:	6GT2811-6CC10-0XB0

Drive technology

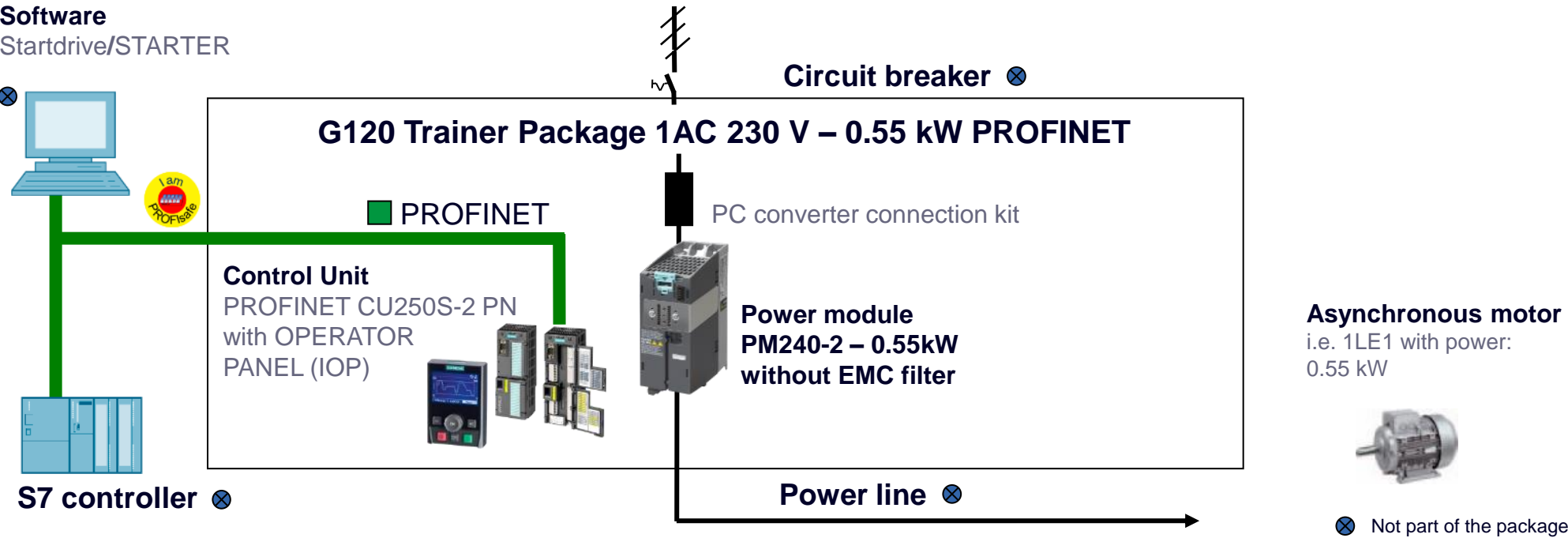
Overview



Product	HW sets	Licenses	SW version	Order number (MLFB)	Note
SINAMICS S210 servo drive for 1AC 200 - 240V with PROFINET, S7-1500 recommended because of PN-IRT	1			6SL3080-8BB00-0AA0	NEW
SINAMICS S210 servo drive for 3AC 380 - 480V with PROFINET, S7-1500 recommended because of PN-IRT	1			6SL3080-8BE00-0AA0	NEW
SINAMICS G120 standard drive for 230V AC single-phase with PROFINET	1			6SL3200-3AX00-0UL1	
SINAMICS G120 standard drive for 400V AC three-phase with PROFINET	1			6SL3200-3AX00-0UL2	
SINAMICS S120 servo drive for 230 V AC single-phase with PROFINET	1			6SL3080-8AB01-0AA0	
SINAMICS S120 servo drive for 400 V AC three-phase with PROFINET	1			6SL3080-8AE01-0AA0	

Relevant Information: <https://support.industry.siemens.com/cs/de/en/view/65601780>

SINAMICS G120 standard drive 1 AC 230 V



- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	See slides below
Order number:	6SL3200-3AX00-0UL1

Note: Your local technical consultant will support you in selecting a motor

SINAMICS G120 standard drive 1 AC 230 V

- 1 x SINAMICS power module PM240-2 unfiltered with integrated braking chopper 200-240 V 1/3AC+10/-10% 47-63Hz power high overload: 0.55kW at 200% 3 s, 150% 57 s, 100% 240 s; Ambient temperature -10 to +50 °C; power low overload: 0.75kW at 150% 3 s, 110% 57 s, 100% 240 s; Ambient temperature -10 to +40 °C 196x 73x 165 (HxWxD), FSA degree of protection IP20 without control unit and operating unit released as of CU firmware V4.6
- 1 x SINAMICS G120 Control Unit CU250S-2 PN integrated; PROFINET support of vector control, easy positioning EPOS via extended function license; 4 configurable DI/DQ, 6 DI (3 F-DI), 5 DI, 3 DQ (1 F-DQ), 2 AI, 2 AQ; Safety Integrated STO, SBC, SS1 further safety functions via extended safety license encoder: D-CLIQ + HTL/TTL/SSI, resolver/HTL VIA terminal protection IP20 USB and SD/MMC interface
- 1 x SINAMICS SD CARD 512 MB empty
- 1 x SINAMICS G120 shield connection kit 4 incl. shield plate and mounting elements for control units CU250S-2 variant: USS, CAN, DP, PN
- 1 x SINAMICS G Intelligent Operator Panel IOP-2 for SINAMICS G120, G120P G110M, G110D, G120D, G120C ET 200PRO FC-2
- 1 x SINAMICS G120 PC inverter connection kit 2 3 m USB cable for control units CU230P-2, CU240B-2, CU240E-2, CU250S-2 G110M and SINAMICS G120C
- 1 x SINAMICS License Safety Integrated extended functions for memory card
- 1 x SINAMICS G120 license extended functions for CU250S-2 VECTOR memory card for functionality: EPos

6SL3210-1PB13-8UL0

6SL3246-0BA22-1FA0

6SL3054-4AG00-2AA0

6SL3264-1EA00-0LA0

6SL3255-0AA00-4JA2

6SL3255-0AA00-2CA0

6SL3074-0AA10-0AA0

6SL3074-7AA04-0AA0

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
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SINAMICS G120 standard drive 1 AC 230 V

Optional motors

SIMOTICS GP Low-voltage motor without encoder

SIMOTICS GP motor type: 1AV3082B Low-voltage motor, IEC squirrel-cage rotor, self-ventilated, IP55, temp. class 155(F) to 130(B), aluminum housing, premium efficiency, 4-pin, * FS80M * 0.55kW (50Hz) 0.63kW (60Hz) 3 AC 50Hz 230VD/400VY * 3 AC 60Hz 460VY IM B 3, motor protection, 1 PTC thermistors for shutdown, terminal box at top

1LE1003-0DB22-2AB4

SIMOTICS GP Low-voltage motor with HTL encoder

SIMOTICS GP motor type: 1AV3082B low-voltage motor, IEC squirrel-cage rotor, self-cooled, IP55 temperature class 155(F) according to 130(B); aluminum enclosure; premium efficiency, 4-pin * frame size 80M * 0.55 kW (50 Hz) 0.63 kW (60 Hz), if no order code is specified for selecting another color. 3 AC 50 Hz 230 VD/400 VY * 3 AC 60 Hz 460 VY IM B 3, Motor protection with 1 PTC thermistors for shutdown terminal box at top G11=Built-on encoder 1XP8012-10 (HTL) 1024 pulses, with external fan (F70) 1XP8032-10 is used

1LE1003-0DB22-2AB4-Z
G11

SIMOTICS GP Low-voltage motor with TTL encoder

SIMOTICS GP motor type: 1AV3082B low-voltage motor, IEC squirrel-cage rotor, self-cooled, IP55 temperature class 155(F) according to 130(B) aluminum enclosure premium efficiency, 4-pin * frame size 80M * 0.55 kW (50 Hz) 0.63 kW (60 Hz) 3 AC 50 Hz 230 VD/400 VY * 3 AC 60 Hz 460 VY IM B 3, Motor protection with 1 PTC thermistors for shutdown Terminal box at top G12=Built-on encoder 1XP8012-20 (TTL) 1024 pulses, with external fan (F70) 1XP8032-20 is used

1LE1003-0DB22-2AB4-Z
G12

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SINAMICS G120 standard drive 1 AC 230 V

Optional software

STARTER

Commissioning tool for SINAMICS and MICROMASTER version V5.4 SP2

6SL3072-0AA00-0AG0

STARTDRIVE

Engineering and commissioning tool for SINAMICS version 17

6SL3072-4FA02-0XA0

SIZER

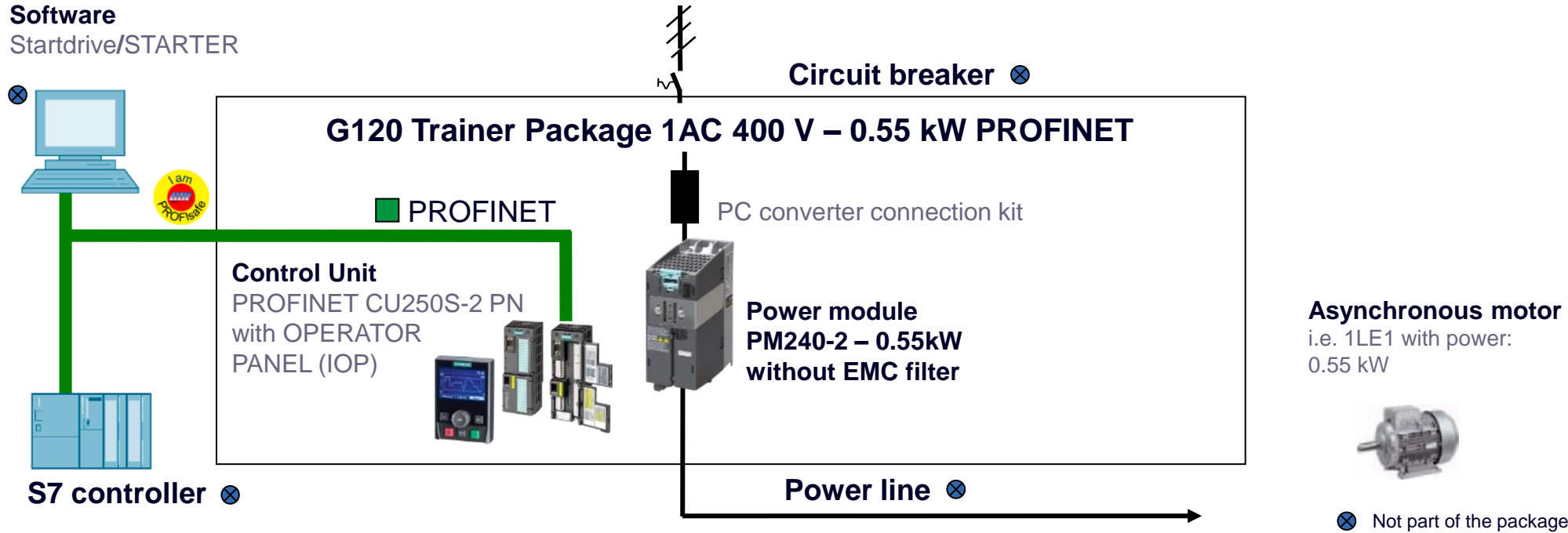
Configuration tool for Siemens drives

6SL3070-0AA00-0AG0

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Note: STARTDRIVE is contained in the Trainer Package SIMATIC STEP 7 Professional Software for Training, [see →](#)

SINAMICS G120 standard drive 3 AC 400 V



- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements: WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/loT Enterprise 2016 LTSC / 2019 LTSC

Sales note: Schools, colleges and universities, for in-house vocational training departments

Technical note: See slides below

Order number: 6SL3200-3AX00-0UL2

Note: Your local technical consultant will support you in selecting a motor

SINAMICS G120 standard drive 3 AC 400 V

1 x	SINAMICS Power Module PM240-2 unfiltered with integrated braking chopper 380-480 V 3 AC +10/-10% 47-63 Hz power high overload: 0.55kW at 200% 3 s, 150% 57 s, 100% 240 s; Ambient temperature -10 to +50 °C; power low overload: 0.75kW at 150% 3 s, 110% 57 s, 100% 240 s; Ambient temperature -10 to +40 °C 196x 73x 165 (HxWxD), FSA degree of protection IP20 without control unit and operating unit released as of CU firmware version V4.6	6SL3210-1PE12-3UL1	
1 x	SINAMICS G120 Control Unit CU250S-2 PN, integrated PROFINET supports vector control, basic positioner EPos via Extended Function license, 4 configurable DI/DO, 6 DI (3 F-DI), 5 DI, 3 DO (1 F-DQ), 2 AI, 2 AO Safety Integrated STO, SBC, SS1, further safety functions via Extended Function license, encoder: D-CLiQ + HTL/TTL/SSI, resolver/HTL via terminal protection IP20, USB and SD/MMC interface	6SL3246-0BA22-1FA0	
1 x	SINAMICS SD CARD 512 MB empty	6SL3054-4AG00-2AA0	
1 x	SINAMICS G120 shield connection kit 4 incl. shield plate and mounting elements for control units CU250S-2 variant: USS, CAN, DP, PN	6SL3264-1EA00-0LA0	
1 x	SINAMICS G Intelligent Operator Panel IOP-2 for SINAMICS G120, G120P G110M, G110D, G120D, G120C ET 200PRO FC-2	6SL3255-0AA00-4JA2	
1 x	SINAMICS G120 PC inverter connection kit 2 3 m USB cable for control units CU230P-2 CU240B-2, CU240E-2, CU250S-2 G110M and SINAMICS G120C	6SL3255-0AA00-2CA0	
1 x	SINAMICS License Safety Integrated extended functions for memory card	6SL3074-0AA10-0AA0	
1 x	SINAMICS G120 license extended functions for CU250S-2 Vector memory card for functionality: EPos	6SL3074-7AA04-0AA0	
			<ul style="list-style-type: none">▶ IOT2000▶ Industrial Controls▶ Engineering SW▶ SIMIT Simulation▶ Basic Automation▶ SIMATIC Controller▶ Distributed IOs▶ Operator control & monitoring▶ Process Automation▶ Industrial Communication▶ Industrial Identification▶ Drive Technology▶ SinuTrain SW▶ PLM Software▶ WorldSkills▶ Ordering Inform.

SINAMICS G120 standard drive 3 AC 400 V

Optional motors

SIMOTICS GP Low-voltage motor without encoder

SIMOTICS GP motor type: 1AV3082B Low-voltage motor, IEC squirrel-cage rotor, self-ventilated, IP55, temp. class 155(F) to 130(B), aluminum housing, premium efficiency, 4-pin, * FS80M * 0.55kW (50Hz) 0.63kW (60Hz) 3 AC 50Hz 230VD/400VY * 3 AC 60Hz 460VY IM B 3, motor protection, 1 PTC thermistors for shutdown, terminal box at top

1LE1003-0DB22-2AB4

SIMOTICS GP Low-voltage motor with HTL encoder

Z= G01 with HTL encoder SIMOTICS GP motor type: 1AV3082B low-voltage motor, IEC squirrel-cage rotor, self-cooled, IP55 temperature class 155(F) according to 130(B); aluminum enclosure; premium efficiency, 4-pin * frame size 80M * 0.55 kW (50 Hz) 0.63 kW (60 Hz), 3 AC 50 Hz 230 VD/400 VY * 3 AC 60 Hz 460 VY IM B 3, Motor protection with 1 PTC thermistors for shutdown, G01 = Built-on encoder 1XP8012-10 (HTL) 1024 pulses, with external fan (F70) 1XP8032-10 is used

1LE1003-0DB22-2AB4-Z
G11

SIMOTICS GP Low-voltage motor with TTL encoder

SIMOTICS GP motor type: 1AV3082B low-voltage motor, IEC squirrel-cage rotor, self-cooled, IP55 temperature class 155(F) according to 130(B) aluminum enclosure premium efficiency, 4-pin * frame size 80M * 0.55 kW (50 Hz) 0.63 kW (60 Hz), 3 AC 50 Hz 230 VD/400 VY * 3 AC 60 Hz 460 VY IM B 3, Motor protection with 1 PTC thermistors for shutdown, terminal box at top G02=Built-on encoder 1XP8012-20 (TTL) 1024 pulses, with external fan (F70) 1XP8032-20 is used

1LE1003-0DB22-2AB4-Z
G12

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
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- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SINAMICS G120 standard drive 3 AC 400 V

Optional motors

STARTER

Commissioning tool for SINAMICS and MICROMASTER version V5.4 SP2

6SL3072-0AA00-0AG0

STARTDRIVE

Engineering and commissioning tool for SINAMICS version 17

6SL3072-4FA02-0XA0

SIZER

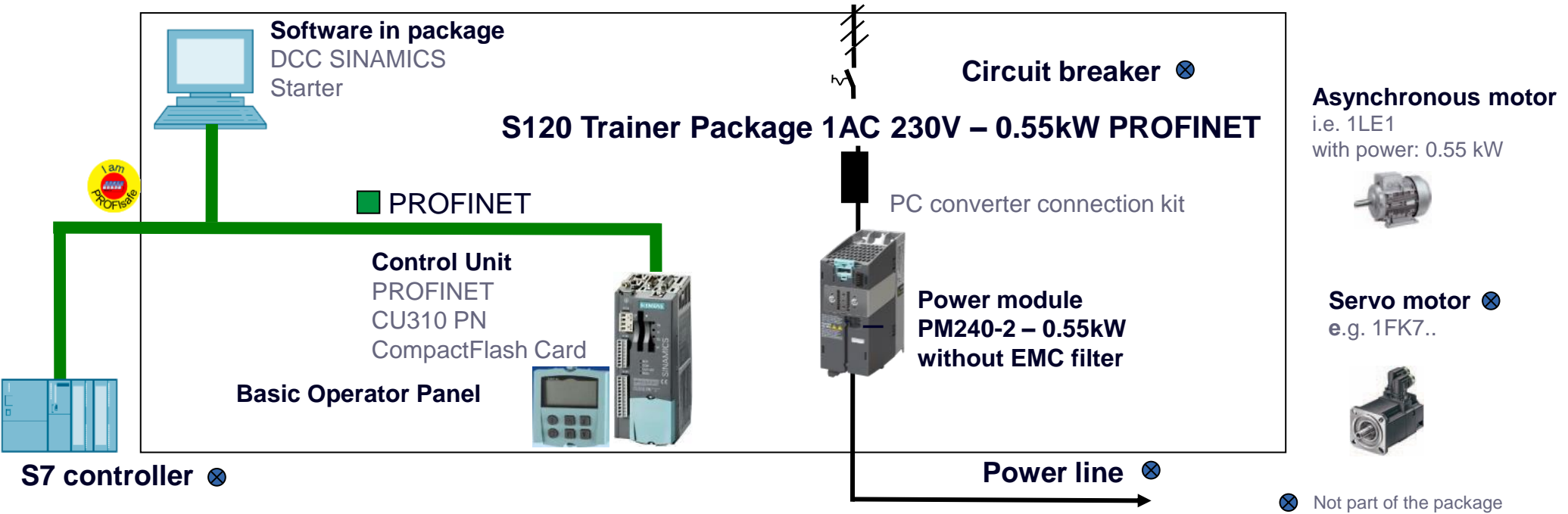
Configuration tool for Siemens drives

6SL3070-0AA00-0AG0

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
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- ▶ PLM Software
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- ▶ Ordering Inform.

Note: STARTDRIVE is contained in the Trainer Package SIMATIC STEP 7 Professional Software for Training, [see →](#)

SINAMICS S120 servo drive 1 AC 230 V



- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
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- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	None available
Order number:	6SL3080-8AB01-0AA0

Note: Your local technical consultant will support you in selecting a motor

SINAMICS S120 servo drive 1 AC 230 V

1 x	SINAMICS power module PM240-2 unfiltered with integrated braking chopper 200-240 V 1/3AC+10/-10% 47-63Hz power high overload: 0.55kW at 200% 3 s, 150% 57 s, 100% 240 s; Ambient temperature -10 to +50 °C; power low overload: 0.75kW at 150% 3 s, 110% 57 s, 100% 240 s; Ambient temperature -10 to +40 °C 196x 73x 165 (HxWxD), FSA degree of protection IP20 without control unit and operating unit, released as of CU firmware V4.6	6SL3210-1PB13-8UL0	
1 x	SINAMICS S120 Control Unit CU310-2 PN with PN interface without CompactFlash card	6SL3040-1LA01-0AA0	
1 x	SINAMICS S120 CompactFlash card without performance extension including Certificate of License V5.1 F01: 1 x License Safety Integrated extended functions	6SL3054-0FB00-1BA0-Z:F01	
1 x	SINAMICS S120 Basic Operator Panel BOP20 for electronic controls, 6 keys for parameter setting and diagnostic information, suitable for control units CU305, CU310, CU320	6SL3055-0AA00-4BA0	
1 x	Software on DVD: STARTER commissioning tool for SINAMICS and MICROMASTER V5.1 SP1 DVD for Windows Server 2008 R2 SP1 (64-bit), Windows 10 pro/Enterprise (64-bit), Windows 7 (64-bit) Windows 10 Enterprise 2016 LTSC, 2019 LTSC de, en, es, fr and it also includes all the SSP released SSPs	6SL3072-0AA00-0AG0	
1 x	SINAMICS Engineering System SINAMICS DCC V3.1 SP1, full license DCC for SINAMICS option for STARTER V5.1 SP1, delivery on DVD, incl. floating license	6AU1810-1HA31-1XA0	
			<ul style="list-style-type: none">▶ IOT2000▶ Industrial Controls▶ Engineering SW▶ SIMIT Simulation▶ Basic Automation▶ SIMATIC Controller▶ Distributed IOs▶ Operator control & monitoring▶ Process Automation▶ Industrial Communication▶ Industrial Identification▶ Drive Technology▶ SinuTrain SW▶ PLM Software▶ WorldSkills▶ Ordering Inform.

SINAMICS S120 servo drive 1 AC 230 V

Optional hardware and software

Power supply

SITOP PSU6200 24 V/20 A stabilized power supply input: 120 - 230 V AC (110 - 240 V DC) output: 24 V DC/20 A with diagnostic interface

6EP3336-7SB00-3AX0

Cable

SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

6XV1870-3RH60

Terminal module TM31 IO expansion

For the SINAMICS S120; 12 DI, 2 DQ, 2 AI, 2 AQ

6SL3055-0AA00-3AA1

Terminal module TM54F Safety IO

For devices S120; fail-safe digital inputs and outputs

6SL3055-0AA00-3BA0

Signal line

DRIVE-CLiQ cable IP20/IP20 length: 0.95 meters

6SL3060-4AA10-0AA0

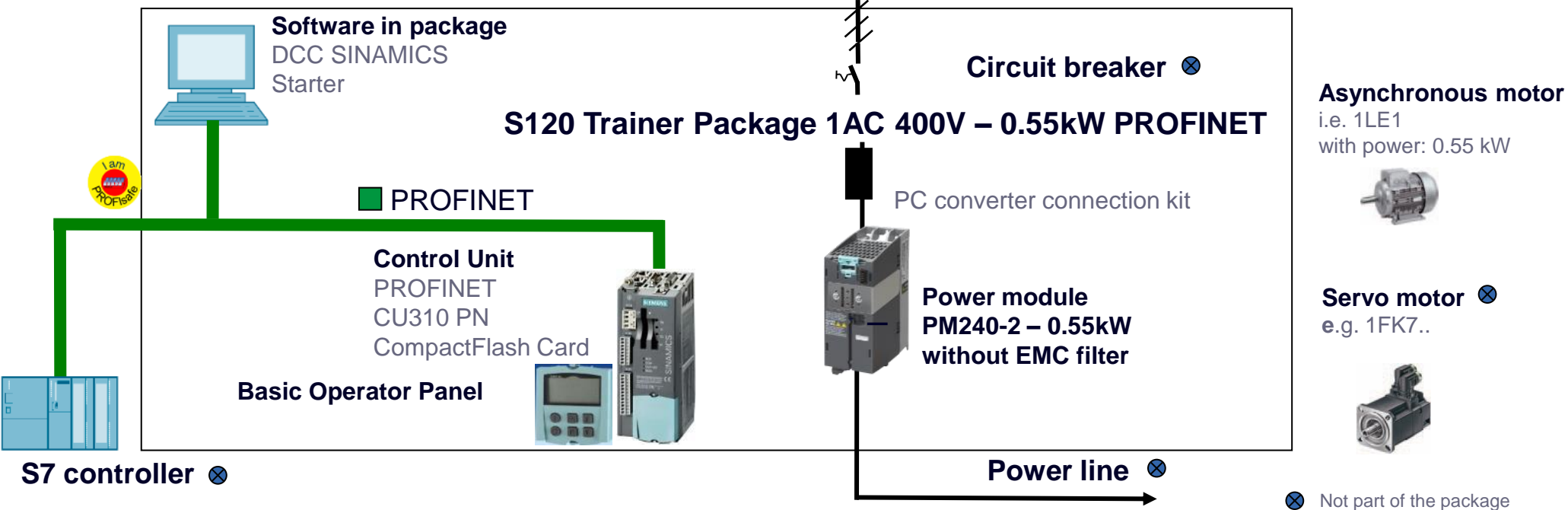
SIZER

Configuration tool for Siemens drives

6SL3070-0AA00-0AG0

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
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SINAMICS S120 servo drive 3 AC 400 V



System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	None available
Order number:	6SL3080-8AE01-0AA0

Note: Your local technical consultant will support you in selecting a motor

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SINAMICS S120 servo drive 3 AC 400 V

1 x	SINAMICS power module PM240-2 unfiltered with integrated braking chopper 380-480 V 3 AC +10/-10% 47-63 Hz power high overload: 0.55kW at 200% 3 s, 150% 57 s, 100% 240 s; Ambient temperature -10 to +50 °C; power low overload: 0.75kW at 150% 3 s, 110% 57 s, 100% 240 s; Ambient temperature -10 to +40 °C 196x 73x 165 (HxWxD), FSA degree of protection IP20, without control unit and operating unit, released as of CU firmware V4.6	6SL3210-1PE12-3UL1	
1 x	SINAMICS S120 Control Unit CU310-2 PN with PN interface without CompactFlash card	6SL3040-1LA01-0AA0	
1 x	SINAMICS S120 CompactFlash card without performance extension including Certificate of License V5.1 F01: 1 x License Safety Integrated extended functions	6SL3054-0FB00-1BA0-Z:F01	
1 x	SINAMICS S120 Basic Operator Panel BOP20 for electronic controls, two-line display, 6 keys for parameter setting and diagnostic information, suitable for control units CU305, CU310, CU320	6SL3055-0AA00-4BA0	
1 x	Software on DL-DVD: STARTER commissioning tool for SINAMICS and MICROMASTER V5.1 SP2 HF1 DL-DVD for Windows Server 2016, 2019 (64-bit) Windows 10 pro/Enterprise (64-bit) Windows 10 Enterprise 2016 LTSC, 2019 LTSC de, en, es, fr and it also includes all SSPs released by the SSP	6SL3072-0AA00-0AG0	
1 x	SINAMICS Engineering System SINAMICS DCC V3.1 SP1, full license DCC for SINAMICS, option for STARTER V5.1 SP1, delivery on DVD, including floating license	6AU1810-1HA31-1XA0	<ul style="list-style-type: none">▶ IOT2000▶ Industrial Controls▶ Engineering SW▶ SIMIT Simulation▶ Basic Automation▶ SIMATIC Controller▶ Distributed IOs▶ Operator control & monitoring▶ Process Automation▶ Industrial Communication▶ Industrial Identification▶ Drive Technology▶ SinuTrain SW▶ PLM Software▶ WorldSkills▶ Ordering Inform.

SINAMICS S120 servo drive 3 AC 400 V

Optional hardware and software

Power supply

SITOP PSU6200 24 V/20 A stabilized power supply input: 120 - 230 V AC (110 - 240 V DC) output: 24 V DC/20 A with diagnostic interface

Cable

SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

Terminal module TM31 IO expansion

For the SINAMICS S120; 12 DI, 2 DQ, 2 AI, 2 AQ

Terminal module TM54F Safety IO

For devices S120; fail-safe digital inputs and outputs

Signal line

DRIVE-CLiQ cable IP20/IP20 length: 0.95 meters

SIZER

Configuration tool for Siemens drives

6EP3336-7SB00-3AX0

6XV1870-3RH60

6SL3055-0AA00-3AA1

6SL3055-0AA00-3BA0

6SL3060-4AA10-0AA0

6SL3070-0AA00-0AG0

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SINAMICS S210 servo drive 1 AC 230 V

- 1 x SINAMICS S210 SD card 512 MB incl. licensing (Certificate of License) V5.2 HF7 F01: 1 X Safety license DBSI
- 1 x Single cable connection prefabricated 4G0.75+2x0.5+4x0.2 C Speed connect connector; M17 cores with end sleeve; Data cable with IX connector UL/CSA DESINA MOTION-CONNECT 500 Dmax=10.5 mm, length(m)= 0 + 0 + 2 + 0
- 1 x SIMOTICS S-1FK2 HD servo motor M0=1.27 Nm; PN = 0.6 kW at nN=6000 rpm (380-480 V); PN = 0.4 kW at nN=3000 rpm (200-240 V); with holding brake; degree of protection IP64; shaft D19x40 mm with feather key; absolute encoder 22-bit + 12-bit multi-turn (encoder AM22DQC); with OCC interface; Connector size M17, rotatable;
- 1 x SINAMICS S210 input voltage: 200-240V 1AC; -10%/+10%; 5.0A; 45-66Hz; output voltage: 0-input V; 2.4A; 0-550 Hz; motor: 0.4 kW; degree of protection: IP20; frame size B; 55 x 170 x 170 (WxHxD)



6SL3054-4FC00-2BA0-Z F01

6FX5002-8QN08-1AC0

1FK2104-4AK10-1MA0

6SL3210-5HB10-4UF0

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Order number:	6SL3080-8AB01-0AA0

Core product
for vocational
World Cup
Industrial
Control



SINAMICS S210 servo drive 1 AC 230 V

- 1 x SINAMICS S210 SD card 512 MB incl. licensing (Certificate of License) V5.2 HF7 F01: 1 X SAFETY LICENSE DBSI; **6SL3054-4FC00-2BA0-Z F01**
- 1 x Single cable connection prefabricated 4G0.75+2x0.5+4x0.2 C SPEED-CONNECT connector; M17 cores with end sleeve; data cable with IX connector; UL/CSA DESINA MOTION-CONNECT 500 Dmax=10.5 mm, length(m)= 0 + 0 + 2 + 0 **6FX5002-8QN08-1AC0**
- 1 x SIMOTICS S-1FK2 HD servo motor M0=1.27 Nm; PN = 0.6 kW at nN=6000 rpm (380-480 V); PN = 0.4 kW At nN=3000 rpm (200-240 V); With holding brake; Degree of protection IP64; Shaft D19x40 mm with feather key; Absolute encoder 22-bit + 12-bit multi-turn (encoder AM22DQC); With OCC interface; Connector size M17, rotatable; **1FK2104-4AK10-1MA0**
- 1 x SINAMICS S210 input voltage: 200-480 V 3AC; -10%/+10%; 1.6 A; 45-66 Hz; output voltage: 0-input V 1.2 A; 0-550 Hz; motor: 0.4 kW; degree of protection: IP20; frame size A; 50 x 270 x 220 (WxHxD) **6SL3210-5HE10-4UF0**



System requirements:	WIN10 (64-bit) Prof. 1909, 2004, 20H2/Enterprise 1909, 2004, 20H2/IoT Enterprise 2016 LTSC / 2019 LTSC
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Order number:	6SL3080-8AE01-0AA0

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

SinuTrain software

Overview



Product	HW sets	Licenses	SW version	Order number (MLFB)	Note
SinuTrain SINUMERIK Operate V4.5/V4.7/V4.8/V4.9 siemens.com/sinutrain-downloads		Basic version		No time limit	NEW
SinuTrain Trainer Package for SINUMERIK Operate		6+40	V4.9	MCS5370 / 6FC5870-1TC46-0YA0	NEW ★
SinuTrain student licenses for SINUMERIK Operate – 300 hours		20	V4.9	MCS5360 / 6FC5870-1SC46-0YA0	NEW ★
SinuTrain Trainer Package for SINUMERIK Operate		6+40	V4.8	MCS40552 / 6FC5870-1TC45-0YA0	NEW ★
SinuTrain student licenses for SINUMERIK Operate – 300 hours		20	V4.8	MCS40573 / 6FC5870-1SC45-0YA0	NEW ★
SinuTrain Trainer Package for SINUMERIK Operate		6+40	V4.7	MCS4055 / 6FC5870-1TC43-0YA0	NEW ★
SinuTrain student licenses for SINUMERIK Operate – 300 hours		20	V4.7	MCS4057 / 6FC5870-1SC43-3YA0	NEW ★
SinuTrain Trainer Package for SINUMERIK Operate		6+40	V4.5	MCS40551 / 6FC5870-1TC41-0YA0	NEW ★
SinuTrain student licenses for SINUMERIK Operate – 300 hours		20	V4.5	MCS40571 / 6FC5870-1SC41-0YA0	NEW ★
SinuTrain software <ul style="list-style-type: none"> In Sales by SISW MC Sales only with Maintenance. Order no. MCS**** → Requests for offers should be sent to: mcmts.software.plm@siemens.com In Sales by Siemens Sales without Maintenance. Article number 6FC5870-1 → Requests for offers should be sent to Standard Siemens Sales 					
★ Only for schools, colleges and universities					

Download

SinuTrain for SINUMERIK Operate V4.5/V4.7/V4.8/V4.9 – Basic

The SinuTrain offline programming station brings SINUMERIK Operate, including animated machine control panel, to the PC to create a training situation that is very similar to reality thus facilitating easy transition from a training environment to a practical environment. This powerful tool allows NC programs to be programmed offline on a PC in an environment that is close to reality; these NC programs can then be directly transferred to the CNC.

Using SINUMERIK Operate and the original SINUMERIK CNC kernel, all operating and programming operations can be used and CNC programs executed without any restrictions. SinuTrain for SINUMERIK Operate V4.5/V4.7/V4.8/V4.9 - Basic is based on the respective SINUMERIK CNC firmware.

The control-identical NC programming station – as a basic version with no time limit – available as a free download.



- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

System requirements:	See siemens.com/sinutrain-downloads
Sales note:	Schools, colleges and universities, not for in-house vocational training departments
Technical note:	Basic version – with no time limit
Order number:	Download siemens.com/sinutrain-downloads

Academic Bundle – SinuTrain for SINUMERIK Operate V4.9

6 x license for **SinuTrain Operate V4.9**

2 x 20 license for **SinuTrain Student Package Operate V4.9 – for students**
Software subject to time limit of 300 hours with authorization

The packages contain only the licenses. The software itself must be downloaded as demo version – see [siemens.com/sinutrain-downloads](https://www.siemens.com/sinutrain-downloads) – and the licenses must then be installed



1 Package
Full Licenses



2 Packages
Student Licenses
**MCS5360/
6FC5870-1SC46-0YA0**

Maintenance

Basic maintenance services. The software maintenance services include software updates and phone support for the software.
The costs are incurred annually.

System requirements:	Windows 10 (64-bit; Mobile and Mobile Enterprise are not supported)	
Sales note:	Schools, colleges and universities, not for in-house vocational training departments Depending on the country, the package is sold only with Maintenance (currently in DE, AT, CN, US, IT, TW) or only without Maintenance For quotation requests in general, send email to: mcmts.software.plm@siemens.com	
Technical note:	Suitable for use with SINUMERIK 840D SL, SINUMERIK 828D/828D BASIC with CNC software V4.8	
Order number:	MCS5370 (incl. Maintenance)	6FC5870-1TC46-0YA0 (without Maintenance)

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Academic Bundle – Student Package for SinuTrain SINUMERIK Operate V4.9

1 x 20 license for **SinuTrain Operate V4.9 – for students**
Software subject to time limit of 300 hours with authorization



1 Package
Student Licenses

The packages contain only the licenses. The software itself must be downloaded as demo version – see [siemens.com/sinutrain-downloads](https://www.siemens.com/sinutrain-downloads) – and the licenses must then be installed

Maintenance

Basic maintenance services. The software maintenance services include software updates and phone support for the software. The costs are incurred annually.

System requirements:	Windows 10 (64-bit; Mobile and Mobile Enterprise are not supported)	
Sales note:	Schools, colleges and universities, not for in-house vocational training departments Depending on the country, the package is sold only with Maintenance (currently in DE, AT, CN, US, IT, TW) or only without Maintenance For quotation requests in general, send email to: mcmts.software.plm@siemens.com	
Technical note:	Suitable for use with SINUMERIK 840D SL, SINUMERIK 828D/828D BASIC with CNC software V4.8	
Order number:	MCS5360 (incl. Maintenance)	6FC5870-1SC46-0YA0 (without Maintenance)

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Academic Bundle – SinuTrain for SINUMERIK Operate V4.8

6 x license for **SinuTrain Operate V4.8**

1 x 20 license for **Operate V4.8 – for students**
Software subject to time limit of 300 hours with authorization

The packages contain only the licenses. The software itself must be downloaded as demo version – see [siemens.com/sinutrain-downloads](https://www.siemens.com/sinutrain-downloads) – and the licenses must then be installed



1 Package
Full Licenses



2 Packages
Student Licenses
**MCS40573/
6FC5870-1SC45-0YA0**

Maintenance
Basic maintenance services. The software maintenance services include software updates and phone support for the software.
The costs are incurred annually.

System requirements:	Windows 7 SP1 (32-bit and 64-bit; Starter, Web Edition and Embedded are not supported) Windows 8.1 (32-bit and 64-bit; RT Edition is not supported) Windows 10 (64-bit; Mobile and Mobile Enterprise are not supported)
Sales note:	Schools, colleges and universities, not for in-house vocational training departments Depending on the country, the package is sold only with Maintenance (currently in DE, AT, CH, US, IT, TW) or only without Maintenance For quotation requests in general, send email to: mcmts.software.plm@siemens.com
Technical note:	Suitable for use with SINUMERIK 840D SL, SINUMERIK 828D/828D BASIC with CNC software V4.8
Order number:	MCS40552 (incl. Maintenance) 6FC5870-1SC45-0YA0 (without Maintenance)

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Academic Bundle – Student Package for SinuTrain SINUMERIK Operate V4.8

1 x 20 license for **SinuTrain Operate V4.8 – for students**
Software subject to time limit of 300 hours with authorization

6FC5870-1SC45-0YA0



1 Package
Student Licenses

The packages contain only the licenses. The software itself must be downloaded as demo version – see [siemens.com/sinutrain-downloads](https://www.siemens.com/sinutrain-downloads) – and the licenses must then be installed

Maintenance	
Basic maintenance services. The software maintenance services include software updates and phone support for the software. The costs are incurred annually.	
System requirements:	Windows 7 SP1 (32-bit and 64-bit; Starter, Web Edition and Embedded are not supported) Windows 8.1 (32-bit and 64-bit; RT Edition is not supported) Windows 10 (64-bit; Mobile and Mobile Enterprise are not supported)
Sales note:	Schools, colleges and universities, not for in-house vocational training departments Depending on the country, the package is sold only with Maintenance (currently in DE, AT, CN, US, IT, TW) or only without Maintenance For quotation requests in general, send email to: mcmts.software.plm@siemens.com
Technical note:	Suitable for use with SINUMERIK 840D SL, SINUMERIK 828D/828D BASIC with CNC software V4.8
Order number:	MCS40573 (incl. Maintenance) 6FC5870-1SC45-0YA0 (without Maintenance)

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Academic Bundle – SinuTrain for SINUMERIK Operate V4.7

6 x license for **SinuTrain Operate V4.7**

2 x 20 license for **SinuTrain Operate V4.7 – for students**
Software subject to time limit of 300 hours with authorization

The packages contain only the licenses. The software itself must be downloaded as demo version – see [siemens.com/sinutrain-downloads](https://www.siemens.com/sinutrain-downloads) – and the licenses must then be installed



1 Package
Full Licenses



2 Packages
Student Licenses
**MCS4057/
6FC5870-1SC43-0YA0**

Maintenance

Basic maintenance services. The software maintenance services include software updates and phone support for the software.
The costs are incurred annually.

System requirements:	Windows 7 SP1 (32-bit and 64-bit; Starter, Web Edition and Embedded are not supported) Windows 8.1 (32-bit and 64-bit; RT Edition is not supported) Windows 10 (64-bit; Mobile and Mobile Enterprise are not supported)	
Sales note:	Schools, colleges and universities, not for in-house vocational training departments Depending on the country, the package is sold only with Maintenance (currently in DE, AT, CN, US, IT, TW) or only without Maintenance For quotation requests in general, send email to: mcmts.software.plm@siemens.com	
Technical note:	Suitable for use with SINUMERIK 840D SL, SINUMERIK 828D/828D BASIC with CNC software V4.7 SP4	
Order number:	MCS4055 (incl. Maintenance)	6FC5870-1TC43-0YA0 (without Maintenance)

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Academic Bundle – Student Package for SinuTrain SINUMERIK Operate V4.7

1 x 20 license for **SinuTrain Operate V4.7 – for students**
Software subject to time limit of 300 hours with authorization

6FC5870-1SC43-3YA0



1 Package
Student Licenses

The packages contain only the licenses. The software itself must be downloaded as demo version – see [siemens.com/sinutrain-downloads](https://www.siemens.com/sinutrain-downloads) – and the licenses must then be installed

Maintenance	
Basic maintenance services. The software maintenance services include software updates and phone support for the software. The costs are incurred annually.	
System requirements:	Windows 7 SP1 (32-bit and 64-bit; Starter, Web Edition and Embedded are not supported) Windows 8.1 (32-bit and 64-bit; RT Edition is not supported) Windows 10 (64-bit; Mobile and Mobile Enterprise are not supported)
Sales note:	Schools, colleges and universities, not for in-house vocational training departments Depending on the country, the package is sold only with Maintenance (currently in DE, AT, CN, US, IT, TW) or only without Maintenance For quotation requests in general, send email to: mcmts.software.plm@siemens.com
Technical note:	Suitable for use with SINUMERIK 840D SL, SINUMERIK 828D/828D BASIC with CNC software V4.7 SP4
Order number:	MCS4057 (incl. Maintenance) 6FC5870-1SC43-3YA0 (without Maintenance)

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Academic Bundle – SinuTrain for SINUMERIK Operate V4.5

6 x license for **SinuTrain Operate V4.5**

2 x 20 license for **SinuTrain Operate V4.5 – for students**
Software subject to time limit of 300 hours with authorization

The packages contain only the licenses. The software itself must be downloaded as demo version – see [siemens.com/sinutrain-downloads](https://www.siemens.com/sinutrain-downloads) – and the licenses must then be installed



1 Package
Full Licenses



2 Packages
Student Licenses
**MCS40571/
6FC5870-1SC41-0YA0**

Maintenance Basic maintenance services. The software maintenance services include software updates and phone support for the software. The costs are incurred annually.	
System requirements:	Windows 7 SP1 (32-bit and 64-bit; Starter, Web Edition and Embedded are not supported) Windows 8.1 (32-bit and 64-bit; RT Edition is not supported) Windows 10 (64-bit; Mobile and Mobile Enterprise are not supported)
Sales note:	Schools, colleges and universities, not for in-house vocational training departments Depending on the country, the package is sold only with Maintenance (currently in DE, AT, CN, US, IT, TW) or only without Maintenance For quotation requests in general, send email to: mcmts.software.plm@siemens.com
Technical note:	Suitable for use with SINUMERIK 840D SL, SINUMERIK 828D/828D BASIC with CNC software V4.5
Order number:	MCS40551 (incl. Maintenance) 6FC5870-1TC41-0YA0 (without Maintenance)

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Academic Bundle – Student Package for SinuTrain SINUMERIK Operate V4.5

1 x 20 license for **SinuTrain Operate V4.5 – for students**
Software subject to time limit of 300 hours with authorization

6FC5870-1SC41-0YA0



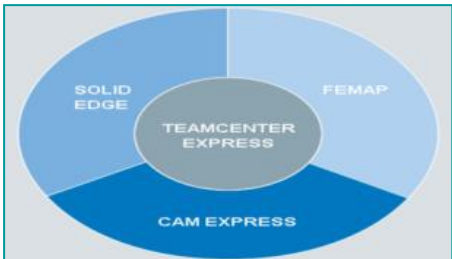
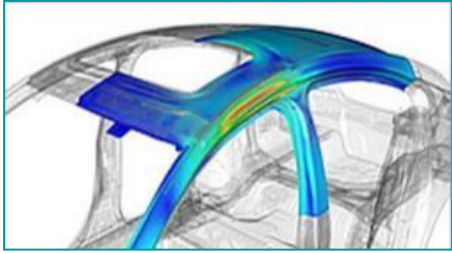
1 Package
Student Licenses

The packages contain only the licenses. The software itself must be downloaded as demo version – see [siemens.com/sinutrain-downloads](https://www.siemens.com/sinutrain-downloads) – and the licenses must then be installed

Maintenance	
Basic maintenance services. The software maintenance services include software updates and phone support for the software. The costs are incurred annually.	
System requirements:	Windows 7 SP1 (32-bit and 64-bit; Starter, Web Edition and Embedded are not supported) Windows 8.1 (32-bit and 64-bit; RT Edition is not supported) Windows 10 (64-bit; Mobile and Mobile Enterprise are not supported)
Sales note:	Schools, colleges and universities, not for in-house vocational training departments Depending on the country, the package is sold only with Maintenance (currently in DE, AT, CN, US, IT, TW) or only without Maintenance For quotation requests in general, send email to: mcmts.software.plm@siemens.com
Technical note:	Suitable for use with SINUMERIK 840D SL, SINUMERIK 828D/828D BASIC with CNC software V4.5
Order number:	MCS40571 (incl. Maintenance) 6FC5870-1SC41-0YA0 (without Maintenance)

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
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- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Siemens Product Lifecycle Management (PLM) Software



PLM software

➤ [NX](#), offers modern tools and technologies for product development. The latest version contains functions for increasing productivity in design, simulation and manufacturing.

➤ [Tecnomatix](#), software for the "Digital factory", offers highly functional solutions for the entire scope of the life cycle of your products with which companies can quickly find the best strategies for increasing productivity and reducing costs in manufacturing.

➤ [Teamcenter](#), supports bringing increasingly complex products to the market throughout the entire product life cycle, with simultaneous increases in productivity and optimized worldwide cooperation.

Velocity Series, a family of modular, pre-integrated software solutions for product life cycle management in small and medium-sized manufacturing companies.

The 2D/3D CAD software Solid Edge is a component of this software.

➤ [Solid Edge Highschool](#) ➤ [Solid Edge students](#) ➤ [Solid Edge Academic](#)

Contact partner

NX MCD software - In DE/AT/CH contact mediation via SCE promoters

All other countries:

www.siemens.com/plm/gaf

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Partnership with WorldSkills

WorldSkills (WS) has been increasing the quality of vocational training for > 60 years



Core product
for vocational
World Cup
Industrial
Control [Z](#)



[WorldSkills](#)



Since 2010, Siemens has been a global industry partner and product sponsor and provides the competitors for the WorldSkills competitions disciplines industrial control, electrical installations, polymechnics/automation and manufacturing team challenge with automation products, such as SIMATIC S7-1500 and LOGO!.

Every two years, a world championship with > 1,000 competitors and > 200,000 visitors takes place.

London 2011, Leipzig 2013, São Paulo 2015, Abu Dhabi 2017, Kazan 2019, Shanghai 2022 ...

**Siemens supports the world championships
as well as selected continental/regional competitions.**

Global
Industry
Partner



- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

Important ordering information



A specific end use agreement is required to purchase Trainer Packages

This additional supplementary agreement for classroom use of SIMATIC software at research, development and training institutions must be signed by the respective educational institution and sent to Siemens.

Trainer Packages are released for delivery by SIEMENS AG, SCE Team global: fax: 49 (0)911-958-29105, [email](#)
Siemens contact partners can find this declaration on the SCE Intranet [Additional agreement](#).

A separate release/ordering process applies to the following products:

SinuTrain:

- Sold only with Maintenance in DE/AT/CN/US/IT/TW → Order number MCS405...
To request a quotation – send email to: mcmts.software.plm@siemens.com
- Sold without Maintenance in all other countries → Order number 6FC5870-1...
To request a quotation – contact Siemens Standard Sales

The following Trainer Packages can only be ordered from schools, colleges and universities:

- | | |
|---|---------------------------------------|
| • STEP 7 Professional and WinCC Advanced V17 SW for students | 6ES7822-1AC07-4YA5 |
| • SIMATIC CFC software for students | 6ES7658-1EX58-0YS6 |
| • SIMOTION SCOUT SW for students | 6AU1810-1BE5_-1YA5 in preparation |
| • SinuTrain Operate | 6FC5870-1T... /MCS405... |
| • SinuTrain Operate for students | 6FC5870-1S... /MCS405... |

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ SIMATIC Controller
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
- ▶ Ordering Inform.

You can find additional information at SCE on the Internet

Siemens Automation Cooperates with Education (SCE)



Teach and learn what matters! The digital transformation is in full swing. SCE provides educators with a comprehensive offering to convey industry 4.0/automation knowledge for academia and in-house vocational training, which can also be used by learners for self-study.

For educators in industrial automation

> [SCE Support Finder](#)




All SCE offers for trainees and students at a glance

Are you an trainee or student wanting to improve your knowledge on automation and Industry 4.0, and are you looking for an exciting traineeship, internship or job (alongside your studies)? Then we have just what you need – on our "Trainees and Students" page, you will find everything you require to delve deeper into the industrial world of tomorrow:

- Learning material for targeted improvement of training- or study-relevant knowledge
- Industrial software for trying out and for practical exercises
- Offers for jobs and internships alongside your training or studies

Take a look and expand your knowledge or apply!

> [Find out more](#)

 Learning & Training Documents <ul style="list-style-type: none">• Downloads• Guided tour• What's new?• Courses	 Trainer Packages & Products <ul style="list-style-type: none">• Trainer Packages• SIMATIC IOT2000	 Learning Systems <ul style="list-style-type: none">• Didactic OEMs
 Text books <ul style="list-style-type: none">• Downloads	 Media Support <ul style="list-style-type: none">• Images - Apps - Slides - Videos• Brochure - Magazine - Newsletter	 Technical Support <ul style="list-style-type: none">• Industry Online Support• Trial software / firmware• Getting Started / WBT• Products & Systems
 WorldSkills <ul style="list-style-type: none">• Competitions• Cooperation	 Trainees & Students <ul style="list-style-type: none">• Overview• Jobs & Career• Application Tips	 Contact partner <ul style="list-style-type: none">• Overview

Comprehensive support for educators and students on the way to Industry 4.0

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

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