



SIEMENS
Ingenuity for Life



Cooperates
with Education



SIEMENS




Automation



SCE Guide Trainer Packages



Siemens Automation Cooperates with Education (SCE) | 03/2017



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Siemens Automation Cooperates with Education (SCE)

Simplify your education in automation

SIEMENS

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

As a technology leader, we support educational and R&D institutions with our excellent industrial know-how and a specific range of services. We support secondary and tertiary education, as well as initial non commercial training departments in the field of automation and drive technology.

Through cooperative partnerships, we help educators to plan their classes in a targeted, practice-oriented manner and in compliance with the curriculum.

Overview of SCE services

- SCE Curriculums for classes
- SCE Trainer Packages for practice-oriented education
- SCE Courses for providing up-to-date technical knowledge
- SCE Support for your projects/technical books
- Complete Didactic Solutions from our partners
- SCE Contact Partner for individual support



[↗ SCE Internet](#)

SCE Trainer Packages for Educators

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

> 80 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 teaching material 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 therefore mapped the relevant configurations from practical educational use in SCE packages for you.

Who are these Trainer Packages for?

- For research, development and educational institutes
- For partners such as didactic OEM companies which integrate these SCE Trainer Packages into a didactic solution.
- For industrial and corporate initial training – with the exception of Trainer Packages, [see page 149](#).



What should be considered when using Trainer Packages?

The products listed may be subject to European/German and/or US export regulations.

The notes on the Trainer Packages must also be observed.

Overview Trainer Packages

SIMATIC Engineering Software

- Overview structure STEP 7 and HMI
- Single-user license V14 *
- 6er Classroom license V14 *
- 6er Upgrade license V14 *
- Software for students V14 *
- Control with SIMATIC standard
- Control with SIMATIC modular
- CFC 12er Classroom license
- CFC Student license
- IE Softnet 12x Classroom license *

SIMIT Simulation

- SIMIT V8.1 Simulation framework *
- SIMIT V8.1 Demo version *

Basic Automation

- LOGO! 12/24V / LOGO! 230V / USB cable *
- LOGO! 12/24V / LOGO! 230V (ETHERNET) *
- Basic Panels KTP400 for LOGO! *
- S7-1200 SPS *
- Basic Panels KTP700 for S7-1200 *
- Upgrade STEP 7 V14 Basic for S7-1200 Package *

SIRIUS Industrial Controls

*

CNC-Software SinuTrain

*

PLM Software

*

Operator Control & Monitoring

- Overview structure STEP 7 and HMI
- WinCC Advanced V14 / WinCC flexible 2008 *
- Software for students *
- SIMATIC HMI TP700 /TP1500 COMFORT PANEL *
- WinCC V14 Professional *
- WinCC V7 6er license *
- WinCC/Web Navigator V7 6er license *
- WinCC/Web Navigator V7 6er license (ASIA) *
- Upgrade WinCC V7/Web Navigator V7 6er license *

Process Automation

- Process control system PCS 7 3er license/upgrade *
- Process control system PCS 7 6er license *
- Process control system PCS 7 AS RTX Box *

Drive Technology

- SINAMICS G120 Standard drive *
- SINAMICS S120 Servo drive *
- SIMOTION D410 add-on for S120 *

Sensor Technology

- MV440 Code Reader *
- SIMATIC RF200/RF300 RFID System *
- SIWAREX Weighing systems

SIMATIC Controller

- ET 200SP Open Controller *
- ET 200SP 1512SP F-1 PN *
- S7-1512C PN *
- S7-1516F PN/DP / S7-1516 PN/DP *
- S7-314C-2PN/DP / S7-314C-2PN/DP (Upgrade)
- S7-315F-2PN/DP
- S7-300 Safety IOs
- S7-315T Technology

Distributed IOs

- ET 200SP *
- ET 200SP with communication module AS-i Master *
- ET 200SP with input module Energy Meter *
- ET 200SP with communication module IO-Link *
- ET 200SP Expansion Analog Safety *

Industrial Communication














- SINEMA - Network Monitoring Software *
- CP343-1 Advanced
- Switch X208
- Security Switch
- IWLAN *
- FASTCONNECT Connection Kit
- Development Kit *

Important Notes

- WorldSkills
- Purchasing Remarks

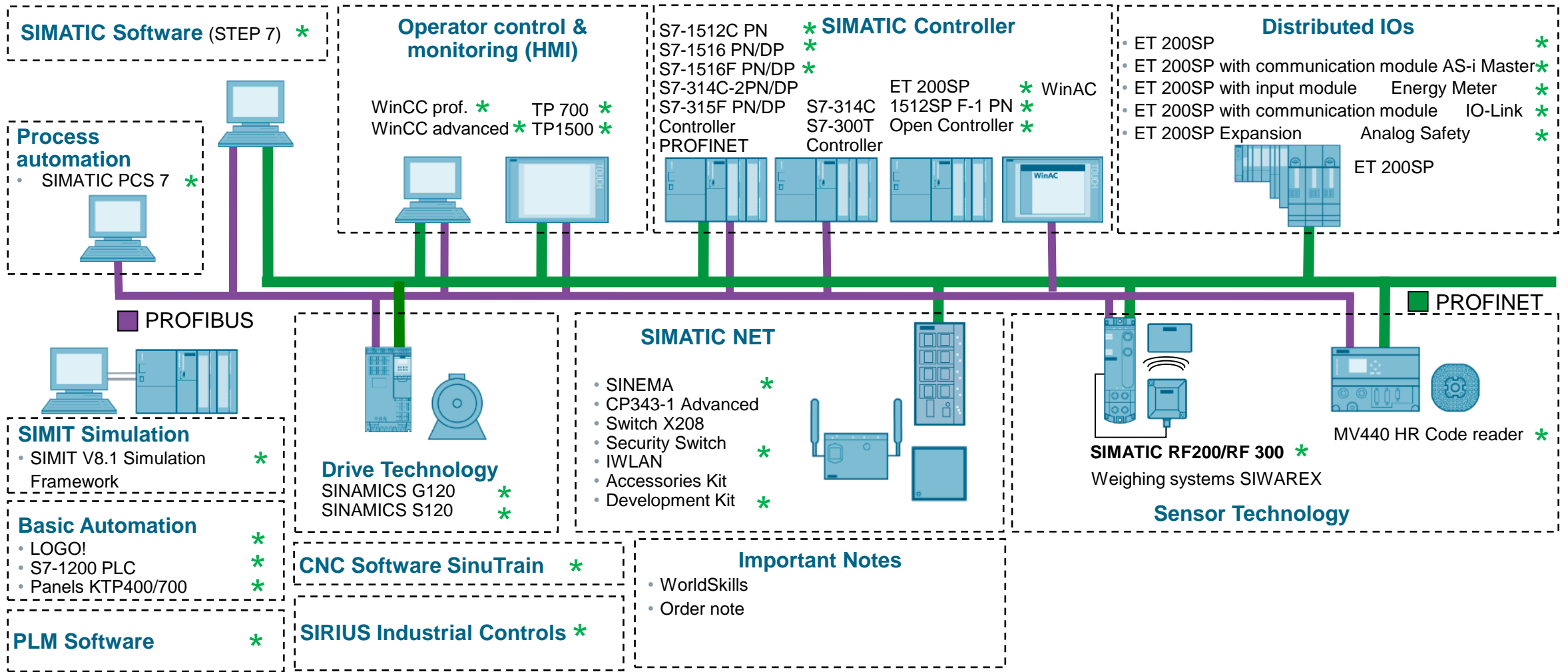
* New / updated package * Package in preparation

SCE List Trainer Packages

Product	HW-Sets	Licenses	TIA Portal	MLFB	Note
Open Source Plattform					
 SIMATIC IOT2020 with Ethernet- and USB-Interfaces Can be ordered from RS Components rs-components.com RS stock no.: 124-4037, RS Website Search No. 1244037, SCE Website: siemens.com/sce/iot2020	1				NEW
Industrial Control					
 SIRIUS Low Voltage Devices with IO-Link	1			3TK3388-0TP00	NEW 
Engineering Software					
	SIMATIC STEP 7 Professional Software for Training	1	V14	6ES7822-1AA04-4YA5	NEW 
	SIMATIC STEP 7 Prof. Software for Training	6+20	V14	6ES7822-1BA04-4YA5	NEW 
	Upgrade SIMATIC STEP 7 Prof. SW for Training from Prof. 2006/2010/V11/V12/V13	6+20	V14	6ES7822-1AA04-4YE5	NEW 
	SIMATIC STEP 7 Prof. Software for Students	20	V14	6ES7822-1AC04-4YA5	NEW  
	Upgrade SIMATIC STEP 7 Basic for S7-1200	6	V14	6ES7822-0AA04-4YE5	NEW 
	SIMATIC closed loop control with SIMATIC Modular			6ES7860-1AA00-4YX0	
	SIMATIC closed loop control with SIMATIC Standard			6ES7860-2AA00-4YX0	
	CFC Software V8.2	12		6ES7658-1EX28-0YS5	
	CFC Software for Students V8.2	20		6ES7658-1EX28-0YS6	
	IE Softnet	12	V13 SP2	6GK1950-0BB01	NEW 
SIMIT Simulation					
	SIMIT SCE Simulation Framework V9.0 with Dongle	1		6DL5260-0XX58-0YS5	NEW
	Upgrade SIMIT SCE Simulation Framework V8.0 -> V8.1	1		6DL5260-0XX18-0YS6	
	Upgrade SIMIT SCE Simulation Framework V8.1 -> V9.0	1		6DL5260-0XX58-0YS6	NEW
	Demoversion SIMIT Simulation Framework V9.0			6DL5260-0AX58-0YT8	NEW
Basic Automation					
	LOGO! 8 12/24V ETHERNET -0BA8	6	6	6ED1057-3SA20-0YA1	NEW
	LOGO! 8 230V ETHERNET -0BA8	6	6	6ED1057-3SA20-0YB1	NEW
	LOGO! 6 12/24V -0BA6 - available till March 31, 2017	5	5	6ED1057-3SA00-0YA1	
	LOGO! 6 230V -0BA6 - available till March 31, 2017	5	5	6ED1057-3SA00-0YB1	

[Trainer Packages](#)

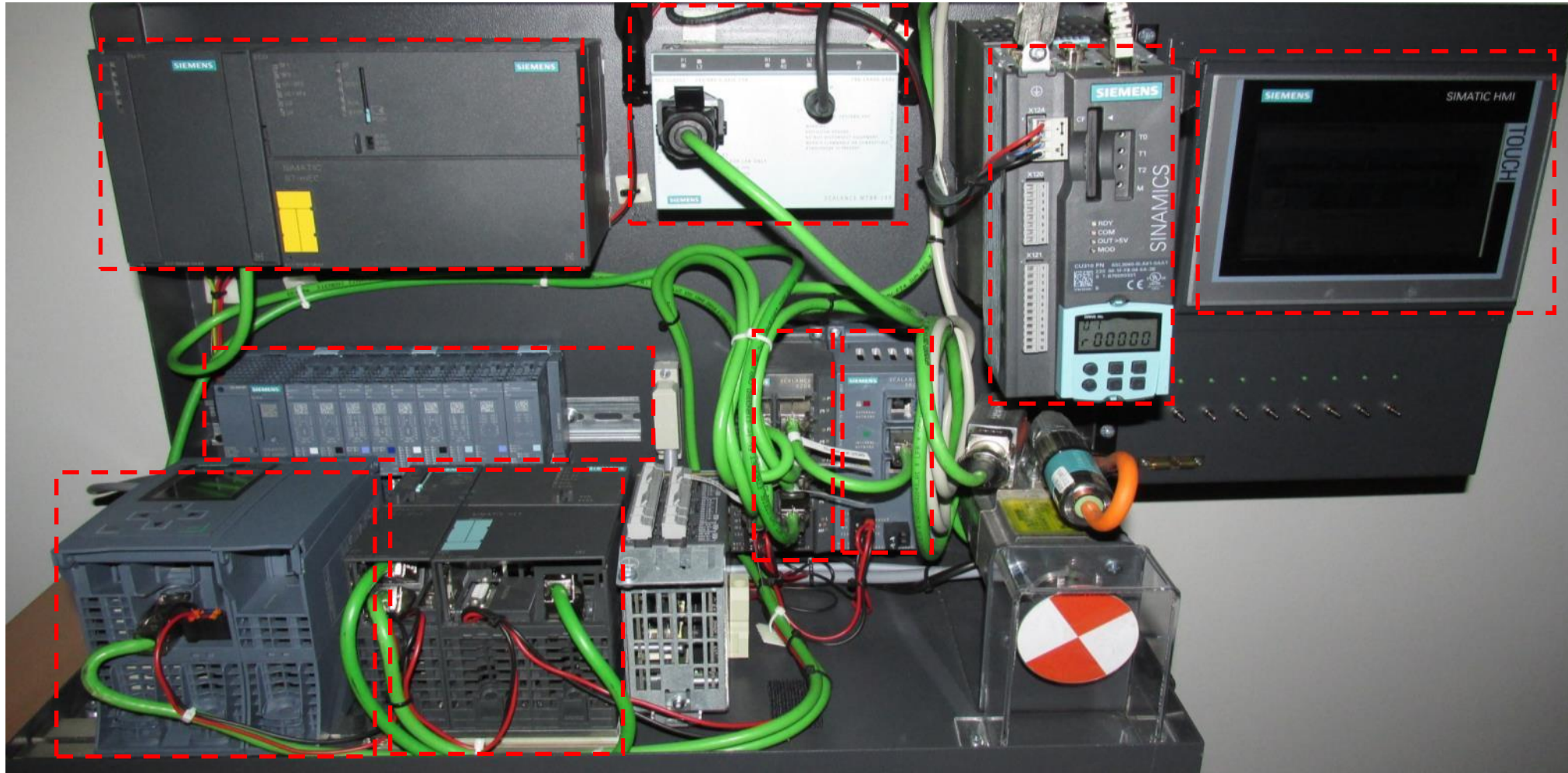
System architecture of the Trainer Packages



* New / updated package

* Package in preparation

Solution Partner demo case with SCE Trainer Packages



- **Overview**
- IO-Link Trainer Package busbar with Infeed system – IO-Link

Infeed system with IO-Link (1/2)

1	3-PHASE BUSBAR WITH INFEED LEFT, FOR 2 CIRCUIT BREAKERS, SIZE S00 AND S0	3RV2917-1A	<ul style="list-style-type: none"> ▶ Industrial Controls ▶ Engineering Software ▶ SIMIT Simulation ▶ Basic Automation ▶ Controller/PLC ▶ Distributed I/Os ▶ Operator control & monitoring ▶ Process Automation ▶ Industrial Communication ▶ Sensor Technology ▶ Drive Technology ▶ CNC Software ▶ PLM Software ▶ Important Notes
1	3-PHASE BUSBAR INCLUDING EXTENSION CONNECTOR, FOR 3 CIRCUIT BREAKERS, SIZE S00 UND S0	3RV2917-4B	
5	CONTACTOR BASE, FOR CONTACTOR SIZE S00 WITH SCREW/SPRING-LOADED TERMINAL (SINGLE-UNIT PACKING)	3RV2917-7AA00	
2	CABLE CONNECTOR SIZE S00 SPRING-LOADED TERMINAL	3RV2917-5AA00	
2	CIRCUIT BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 1.4..2A, N-RELEASE 26A, SPRING-LOADED TERMINAL, STANDARD SWITCHING CAPACITY	3RV2011-1BA20	
2	LINK MODULE, ELECTRICAL AND MECHANICAL, FOR 3RV2011 AND 3RT201., SPRING-LOADED TERMINAL	3RA2911-2AA00	
2	CONTACTOR, AC-3, 3KW/400V, 1NC, DC 24V, COM. CAPABILITY 3-POLE, SZ S00 SPRING-LOADED TERMINAL	3RT2015-2BB42-0CC0	
3	CONTACTOR, AC-3, 3KW/400V, 1NC, DC 24V, 3-POLE, SZ S00 SPRING-LOADED TERMINAL	3RT2015-2BB42	

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

System requirements:

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

Technical note: See slides below

Order number: 3TK3388-0TP00



[↗ Project manual](#)

[↗ SIRIUS](#)

Infeed system with IO-Link (2/2)

1	WIRING KIT, SPRING-LOADED ELECTRICAL AND MECHANICAL, INCL. MECH. INTERLOCK, FOR REVERSING STARTERS, SIZE S00	3RA2913-2AA2	▶ Industrial Controls
1	FUNCTION MODULE FOR IO-LINK, REVERSING START, SPRING-LOADED TERMINAL, MOUNTED ON CONTACTORS 3RT2S0 COMM. CAPABLE CONTACTOR REQUIRED	3RA2711-2BA00	▶ Engineering Software
1	WIRING KIT, SPRING-LOADED ELECTRICAL AND MECHANICAL, INCL. MECH. INTERLOCK, FOR STAR-DELTA STARTER, SIZE S00	3RA2913-2BB2	▶ SIMIT Simulation
1	FUNCTION MODULE STAR-DELTA COMPRISING A BASIC MODULE AND 2 COUPLING MODULES WITH INTEGRATED CONNECTING CABLE; TIME RANGE 0.5...60S 24...240V AC/DC FOR 3RT2 CONTACTORS	3RA2816-0EW20	▶ Basic Automation
1	DIGITAL MONITORING RELAY COS-PHI AND CURRENT MONITORING FOR IO-LINK 90 TO 690V AC, 0.2 TO 10A OVERSHOOT AND UNDERSHOOT ON DELAY TIME TRIPPING DELAY TIME HYSTERESIS 0.1 TO 3.0A 2 CHANGE-OVER CONTACTS, SPRING-LOADED TERMINAL	3UG4841-2CA40	▶ Controller/PLC
1	OVERLOAD RELAY 1...4 A FOR MOTOR PROTECTION SIZE S00, CLASS 5...30 CONTACTOR ASS. MAIN CIRCUIT: SPR.-LOAD.TERM. AUX.CIRCUIT: SPR.-LOAD.TERM. MANUAL-AUTOM. RESET INT. GROUND FAULT DETECTION	3RB3113-4PE0	▶ Distributed I/Os
1	OPERATOR PANEL FOR DEVICES WITH IO-LINK OPERATOR PANEL FOR SIRIUS SWITCHING DEVICES WITH IO-LINK	3RA6935-0A	▶ Operator control & monitoring
			▶ Process Automation
			▶ Industrial Communication
			▶ Sensor Technology
			▶ Drive Technology
			▶ CNC Software
			▶ PLM Software
			▶ Important Notes



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

[↗ Project manual](#)

[↗ SIRIUS](#)

Infeed system with IO-Link



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



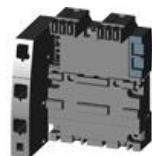
1 x DIGITAL MONITORING RELAY
3UG4841-2CA40



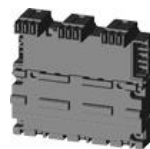
1 x OVERLOAD RELAY
3RB3113-4PE0



1 x OPERATOR PANEL FOR DEVICES WITH IO-LINK
3RA6935-0A



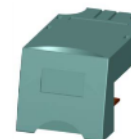
1 x 3-PHASE BUSBAR
3RV2917-1A



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

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes



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

[Project manual](#)

[SIRIUS](#)

Industrial Controls SIRIUS Modular System



[SIRIUS Industrial Controls ↗](#)

[SIRIUS Commanding and Signaling Devices ↗](#)

[Safety Integrated ↗](#)

[Safety Relays 3SK1 ↗](#)

[SIRIUS@YouTube ↗](#)

[Safety@YouTube ↗](#)



▶ Industrial Controls

- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
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- ▶ PLM Software
- ▶ Important Notes

[↗ Project manual](#)

[↗ SIRIUS](#)

- **Overview**
 - Overview STEP 7 and SIMATIC HMI
 - Single-user license
 - 6er license and upgrade
 - 6er Upgrade license for in-house vocational training
 - Student license
 - Control with SIMATIC standard
 - Control with SIMATIC modular
 - CFC 12er License
 - CFC Student license
 - IE Softnet 12er license

System structure for 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 High language similar to Pascal
- S7-GRAPH for sequencers to DIN 1131-3

SIMATIC HMI software - Human Machine Interface

WinCC with

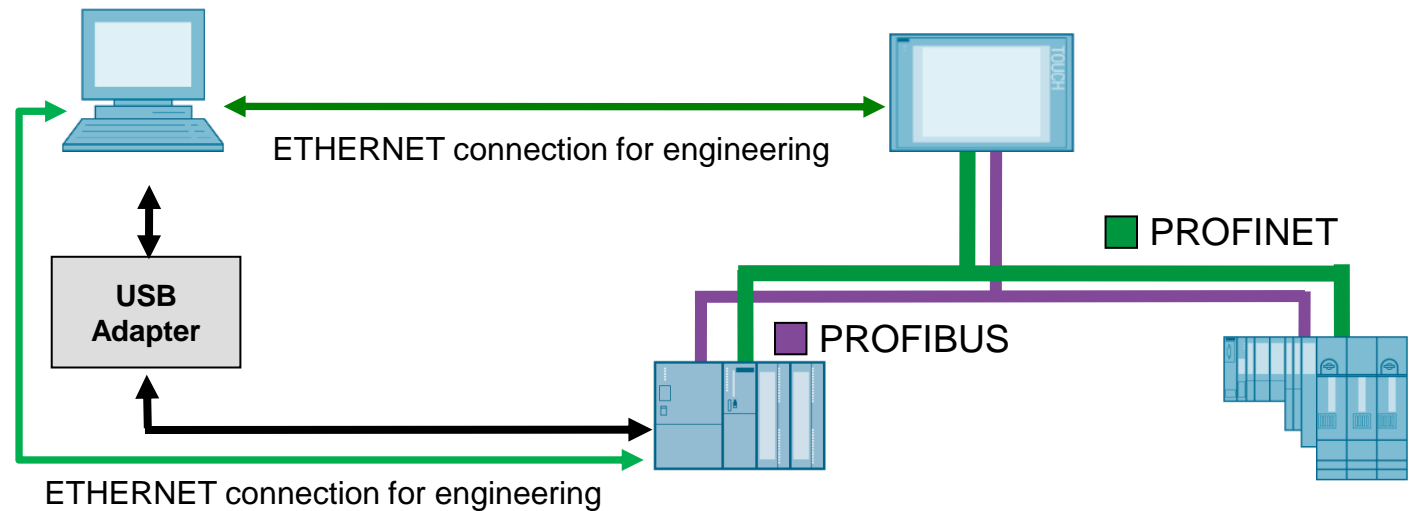
- Advanced level
- Smart Option for Panel / PC
- Smart Access
- OPC Interface

Software Engineering Tool for STEP 7

- SIMATIC CFC
- Control with SIMATIC
- SIMATIC NET SOFTWARE

Touch Panel

TP700 / TP1500
PROFIBUS and PROFINET connection



USB Adapter

6GK1571-0BA00-0AA0
S7 RS485, PC USB
including 5 m cable

S7 Controller

School package with
PROFINET and PROFIBUS

ET 200SP Open Controller ET 200SP ...

School package with PROFINET
For PROFIBUS only interface
has to be ordered separately.

SIMATIC STEP 7 Professional – Software for Training

1er License

1 x Combo license for interchangeable usage

of: SIMATIC STEP 7 Professional V14*
STEP 7 Professional V14 *(LAD, FBD, STL), S7-GRAPH, S7-SCL, S7-PLCSIM

or: SIMATIC STEP 7 Professional 2010 SR4
STEP 7 V5.5 SP4 (LAD, FBD, STL), S7-GRAPH V5.3 SP7, S7-SCL V5.3 SP6, S7-PLCSIM V5.4 SP5

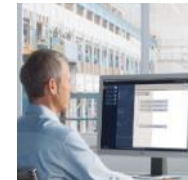
1 x Combo license for interchangeable usage

of: SIMATIC STEP 7 Safety Advanced V14*

or: SIMATIC S7 Distributed Safety 5.4 SP5 Update 1

1 x SINAMICS Startdrive V14* for SINAMICS G120 CONTROL UNIT CU240E-2, CU250S-2, as of Firmware V4.6

1 x SIMIT SIMULATION FRAMEWORK DEMO VERSION V9.0 SP1 [see slide 27 and 28](#)



Totally
Integrated
Automation
PORTAL

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

SW functionally identical
to the industrial version

- ▶ Industrial Controls
- ▶ **Engineering Software**
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements: 64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

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

Technical note: Authorization on USB stick (1 stick)

Order number: 6ES7822-1AA04-4YA5

* V14: also 64 BIT Windows 8.1
Professional, Enterprise

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



[↗ Trial/SP/HF Downloads](#)

SIMATIC STEP 7 Professional – Software for Training

6er Classroom License

6 x Combo license for interchangeable usage

of: SIMATIC STEP 7 Professional V14 *
STEP 7 Professional V14 * (LAD, FBD, STL), S7-GRAPH, S7-SCL, S7-PLCSIM

or: SIMATIC STEP 7 Professional 2010 SR4
STEP 7 V5.5 SP4 (LAD, FBD, STL), S7-GRAPH V5.3 SP7, S7-SCL V5.3 SP6, S7-PLCSIM V5.4 SP5

6 x Combo license for interchangeable usage

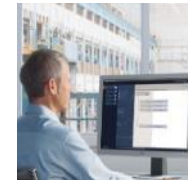
of: SIMATIC STEP 7 Safety Advanced V14 *

or: SIMATIC S7 Distributed Safety 5.4 SP5 Update 1

6 x SINAMICS Startdrive V14* for SINAMICS G120 CONTROL UNIT CU240E-2 CU250S-2, as of Firmware V4.6

1 x SIMIT SIMULATION FRAMEWORK DEMO VERSION V9.0 SP1, see slide 27 and 28

1 x 20 Software for Students, SIMATIC STEP 7 Professional, limited to 365 days via authorization, see slide 19



Totally
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PORTAL

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for TIA Portal [↗](#)

SW functionally identical
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- ▶ Industrial Controls
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- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Students

System requirements: 64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

* V14: also 64 BIT Windows 8.1
Professional, Enterprise

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

Technical note: Authorization on USB stick (1 stick + 1 sticks with 20 software for students each)

Order number: 6ES7822-1BA04-4YA5 Upgrade of STEP 7 Prof. ≤2010 et . ≤V13: 6ES7822-1AA04-4YE5

[↗ Trial/SP/HF Downloads](#)

SIMATIC STEP 7 Professional – Software for Training

6er Classroom License

SIEMENS

6 x Combo license for interchangeable usage

of: SIMATIC STEP 7 Professional V14 *
STEP 7 Professional V14 * (LAD, FBD, STL), S7-GRAPH, S7-SCL, S7-PLCSIM

or: SIMATIC STEP 7 Professional 2010 SR4
STEP 7 V5.5 SP4 (LAD, FBD, STL), S7-GRAPH V5.3 SP7, S7-SCL V5.3 SP6, S7-PLCSIM V5.4 SP5

6 x Combo license for interchangeable usage

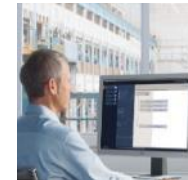
of: SIMATIC STEP 7 Safety Advanced V14 *

or: SIMATIC S7 Distributed Safety 5.4 SP5 Update 1

6 x SINAMICS Startdrive V14* for SINAMICS G120 CONTROL UNIT CU240E-2 CU250S-2, as of Firmware V4.6

1 x SIMIT SIMULATION FRAMEWORK DEMO VERSION V9.0 SP1, [see slide 27 and 28](#)

1 x 20 Software for Students, SIMATIC STEP 7 Professional, **limited to 365 days via authorization**, [see slide 19](#)



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Students

System requirements: 64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

* V14: also 64 BIT Windows 8.1
Professional, Enterprise

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

Technical note: Authorization on USB stick (1 stick + 1 sticks with 20 software for students each)

Order number: 6ES7822-1BA04-4YA5 Upgrade of STEP 7 Prof. ≤2010 et . ≤V13: 6ES7822-1AA04-4YE5

SIMATIC STEP 7 Professional Software for students

Single-user license – limited to 365 days

SIEMENS

20 x Combo license for interchangeable usage

of: SIMATIC STEP 7 Professional V14*
STEP 7 Professional V14 * (LAD, FBD, STL), S7-GRAPH, S7-SCL, S7-PLCSIM

or: SIMATIC STEP 7 Professional 2010 SR4
STEP 7 V5. 5SP3 (LAD, FBD, STL), S7-GRAPH V5.3 SP7, S7-SCL V5.3 SP6,
S7-PLCSIM V5.4 SP5

20 x SINAMICS Startdrive V14 *

for **SINAMICS G120 CONTROL UNIT CU240E-2; CU250S-2**, as of Firmware V4.6

Software limited to 365 days through authorization

Package with:

System requirements: 64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

Sales note: Use only for students for self-study at home.
Schools, colleges and universities, **NOT** for in-house vocational training departments

Technical note: Authorization on USB stick (1 stick)

Order number: 6ES7822-1AC04-4YA5

Students



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SW functionally identical
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* V14: also 64 BIT Windows 8.1
Professional, Enterprise

SIMATIC S7 PID Control with SIMATIC Standard and Modular

SIEMENS

Standard control 6ES7860-2AA00-4YX0

- 6 x SIMATIC S7, STANDARD PID CONTROL V5.2 SP1, PARAMETRIZATION SW, FLOATING LICENSE FOR 1 INSTALLATION, E-SW, SW AND DOCU ON CD, LICENSE KEY ON USB-STICK
- 1 x STANARD PID CONTROL V5.2 SINGLE LICENSE FOR 1 INSTALLATION R-SW, SW AND DOCU ON CD
- 5 x STANARD PID CONTROL V5.2 SINGLE LICENSE FOR 1 INSTALLATION R-SW, WITHOUT SW AND DOCU
- 1 x PID SELF TUNER V5.1 SINGLE LICENSE FOR 1 INSTALLATION R-SW, SW AND DOCU ON CD
- 5 x PID SELF TUNER V5.1 SINGLE LICENSE FOR 1 INSTALLATION R-SW, WITHOUT SW+DOCU

Modular control 6ES7860-1AA00-4YX0

- 6 x MODULAR PID CONTROL V5.1 SP1, PARAMETRIZATION SW, FLOATING LICENSE FOR 1 INSTALLATION E-SW, SW AND DOCU ON CD
- 1 x MODULAR PID CONTROL, V5.1 SINGLE LICENSE FOR 1 INSTALLATION R-SW, SW AND DOCU ON CD
- 5 x MOD.PID CTRL, FB V5.1 SINGLE LICENSE FOR 1 INSTALLATION R-SW, WITHOUT SW AND DOCU
- 1 x PID SELF TUNER V5.1 SINGLE LICENSE FOR 1 INSTALLATION R-SW, SW AND DOCU. ON CD
- 5 x PID SELF TUNER V5.1 SINGLE LICENSE FOR 1 INSTALLATION R-SW, WITHOUT SW AND DOCU

System requirements: 64 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1, WINDOWS XP Professional SP3

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

Technical note: None available

Order number: 6ES7860-2AA00-4YX0 Standard 6ES7860-1AA00-4YX0 Modular

6ES7830-2AA22-0YX0

6ES7860-2AA21-0YX0

6ES7860-2AA21-0YX1

6ES7860-4AA01-0YX0

6ES7860-4AA01-0YX1

6ES7830-1AA11-0YX0

6ES7860-1AA10-0YX0

6ES7860-1AA10-0YX1

6ES7860-4AA01-0YX0

6ES7860-4AA01-0YX1

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

SIMATIC S7 PID Control with SIMATIC Standard and Modular

SIEMENS

SIMATIC S7 PID controller for 6 licenses

Standard control consisting of:

- 6 x Parameterization software version 5.2
- 6 x Function block version 5.2

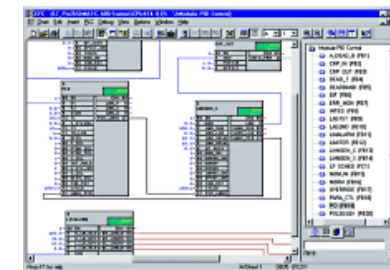
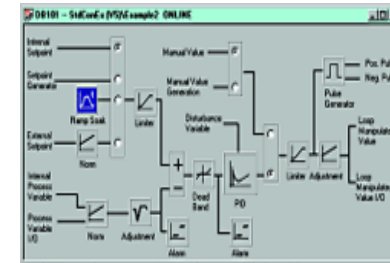
Integration continuous PID controller, impulse controller, step controller into the user program starting from SIMATIC S7-313 CPU.

Modular control consisting of:

- 6 x Commissioning tool version 5.1
- 6 x Function block version 5.1
- Extended features when used with the Standard module starting from SIMATIC S7-313 CPU.

Each package contains additionally

- 6 x PID Self-Tuner V5.1 for online initial parameterization and online adaptation while the application is running.



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

SIMATIC CFC

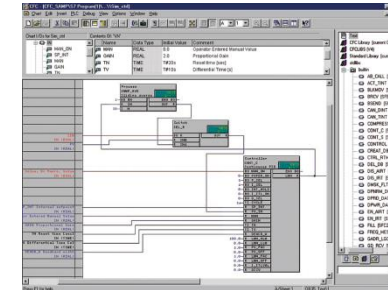
12er Classroom License

SIEMENS

12 x SIMATIC CFC V8.2

3 x 20 Software for Students SIMATIC CFC V8.2
SW limited to 365 days through authorization
20 licenses per USB stick.

Students



SW functional identical to the industrial version

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements:	64 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1, WINDOWS XP Professional SP3
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Authorization on USB stick (1 stick)
Order number:	6ES7658-1EX28-0YS5

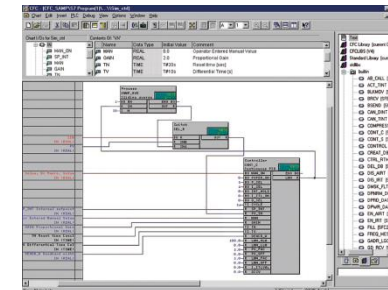
SIMATIC CFC software for students

Single-user license – limited to 365 days

SIEMENS

20 x **SIMATIC CFC V8.2**
SW limited to 365 days through authorization
20 licenses per USB stick

Students



SW functional identical to the industrial version

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements: 64 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1, WINDOWS XP Professional SP3

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

Technical note: Authorization on USB stick (1 stick)

Order number: 6ES7658-1EX28-0YS6

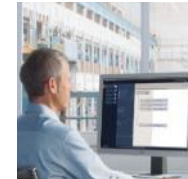
SIMATIC NET Software IE Softnet 12er Classroom License

SIEMENS

12 X

6GK1704-1CW14-0AA0 SIMATIC NET IE SOFTNET-S7 V14

SIMATIC NET SOFTNET-IE S7 V14 SW F. S7-,S5-COMP.-COMM.,OPC;
PG/OP-COMM., CONF. SW, MAX 64 CONN; SINGLE LIC. F.1 INSTALLATION;
R-SW, SW + ELECTR. MAN ON DVD; LICENSE KEY ON USB-STICK; CLASS A;
2-LANGUAGES (G,E)



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

SW functional identical to
the industrial version

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements: 64 BIT: WINDOWS 7 Professional, Ultimate SP1
32 BIT: WINDOWS 7 Professional, Ultimate SP1

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

Technical note: None available

Order number: 6GK1950-0BB01

* V14: also 64 BIT Windows 8.1
Professional, Enterprise

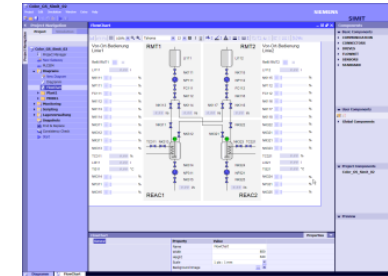
Virtual commissioning with SIMIT Simulation Framework

- **Overview**
 - SIMIT V9.0 Simulation Framework and Upgrade
 - SIMIT V9.0 Demo Version

SIMIT Simulation Framework V9.0 SP1

Full version with one dongle

1. Creation/modification/testing (**dongle owner/single-user license**) of virtual plants with SIMIT complete functionalities of SIMIT ULTIMATE version and FLOWNET, CONTEC library
2. Saving of SIMIT models, with demo version (without dongle) observe restrictions
3. Models can be used in demo version by unlimited number of users



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ **SIMIT Simulation**
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Restrictions of demo version have to be observed, **see slides 27 and 28**

IO limitations when using the demo version

64	binary inputs	I 0.0-E 7.7
64	binary outputs	O 0.0-A 7.7
11	analog inputs	IW 64-IW 85
8	analog outputs	OW 64-OW 79
400	components and	IO elements

System requirements: 64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

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

Technical note: Hardware USB dongle

Order number: 6DL5260-0XX58-0YS5 Upgrade: 6DL5260-0XX18-0YS6 from V8.0 to V8.1
6DL5260-0XX58-0YS6 from V8.1 to V9.0

Currently not compatible with S7-1200/1500

SIMIT Simulation Framework V9.0 SP1, Demo Version

SIMIT V9.0 Demo Version (without dongle)

The following limitation are in effect for the demo version:

- Simulation is limited to 45 minutes
- Only one coupling to PLCSIM or PRODAVE can be added to the project
- The address space is limited to IB0-IB7, IB64-IB85 for inputs and OB0-OB7, OB64-OB79 for outputs
- The FLOWNET and CONTEC libraries are not supported
- The editor for dynamic graphics, 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

[↗ Demo version](#)

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ **SIMIT Simulation**
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements: 64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

Currently not compatible with S7-1200/1500

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

Technical note: None available

Order number: 6DL5260-0AX58-0YT8 (Demo Version)

SIMIT Simulation Framework V9.0 SP1, Demo Version

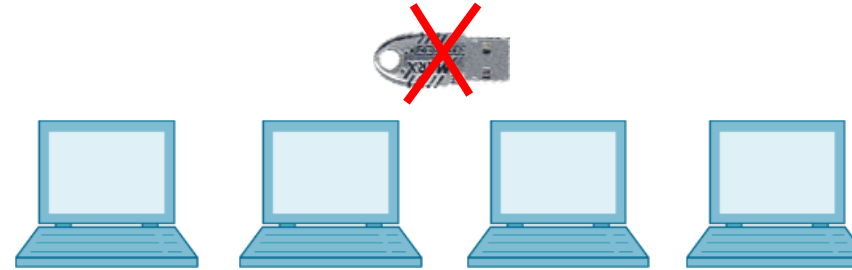
Application versions

SIEMENS



Test of PLC user program

SIMIT models



Test of PLC user program

Educator (dongle owner):

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

Students (demo version without dongle):

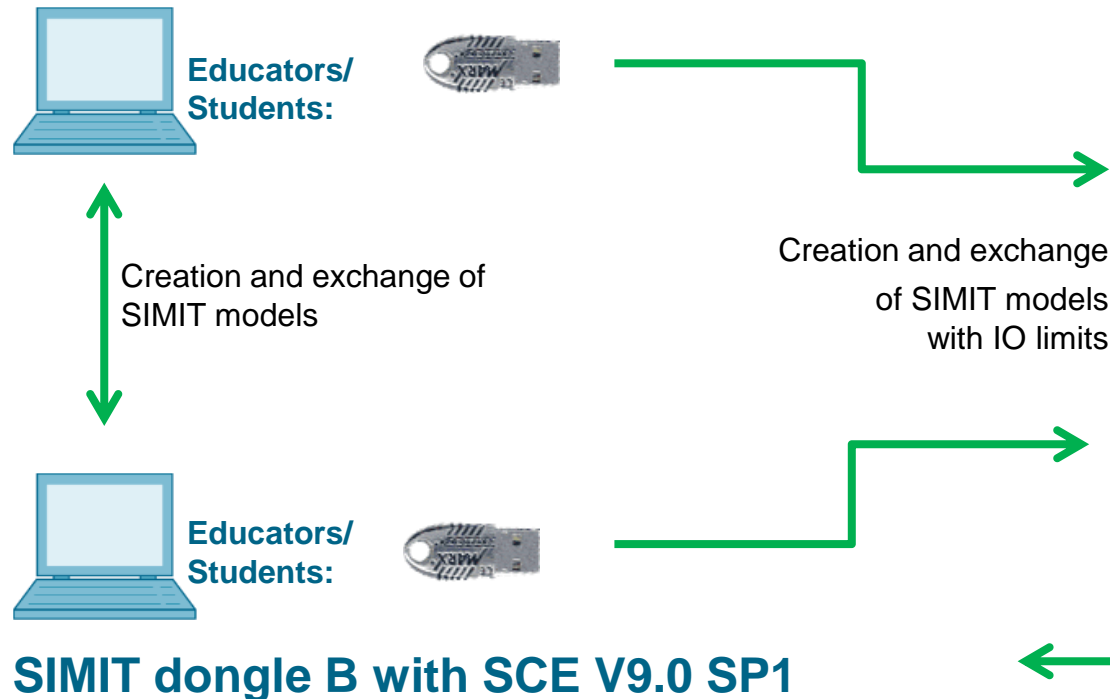
- Use of the models within the restrictions of the demo version
- Create own models with IO limits
- Projects created in the demo version are restricted to the SIMIT installation, in which they have been created

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ **SIMIT Simulation**
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

SIMIT Simulation Framework V9.0 SP1, Demo Version

Application versions

SIMIT dongle A with SIMIT V9.0 SP1



SIMIT demo version



Students (demo version without dongle):

- Use the models of any dongle owner while observing the IO limits
- Simulation limited to 45 minutes
- Creation of own models with IO limits
- Projects created in demo mode are restricted to the SIMIT installation, in which they have been created

Created SIMIT models

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ **SIMIT Simulation**
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

- **Overview**
 - LOGO! 12/24V and 230V/ETHERNET interface
 - LOGO! 12/24V and 230V/USB cable
 - Basic Panel KTP400 for LOGO! 1er
 - Basic Panel KTP400 for LOGO! 6er
 - S7-1200
 - Basic Panel KTP700 for S7-1200 1er
 - Basic Panel KTP700 for S7-1200 6er
 - Upgrade STEP 7 V14 Basic for S7-1200 Packages

LOGO! 12/24V or 230V with ETHERNET interface

LOGO! 12/24V

6x LOGO! 12/24 RCE	6ED1052-1MD00-0BA8
6x LOGO! DM8 12/24R Expansion module	6ED1055-1MB00-0BA2
6x LOGO! Soft Comfort V8	6ED1058-0BA08-0YA1

LOGO! 230V

6x LOGO! 230 RCE	6ED1052-1FB00-0BA8
6x LOGO! DM8 230R Expansion module	6ED1055-1FB00-0BA2
6x LOGO! Soft Comfort V8	6ED1058-0BA08-0YA1

Recommended accessories:

6AV2123-2DB03-0AA0
6AV2123-2DB03-0AA1
 Trainer Package: SIMATIC Basic Panel KTP400

6XV1870-3RH60
 SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45,
 CROSSED TP CABLE 4X2, PREASSEMBLED WITH 2 RJ45
 CONNECTORS, LENGTH 6 M

6GK1950-0BB00
 Trainer Package: FASTCONNECT
 connection technology



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ **Basic Automation**
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements:	WINXP, WIN7, WIN8, WIN10 ALL VERSIONS, 32/64 BIT MAC OSX 10.6 TO 10.9 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

LOGO! 12/24V or 230V

Available until Dec. 31, 2016

LOGO! 12/24V

5x LOGO! 12/24 RC 6ED1052-1MD00-0BA6
 5x LOGO! Soft Comfort V8 6ED1058-0BA08-0YA1
 1x LOGO! PC-cable (USB) 6ED1057-1AA01-0BA0

LOGO! 230V

5x LOGO! 230 RC 6ED1052-1FB00-0BA6
 5x LOGO! Soft Comfort V8 6ED1058-0BA08-0YA1
 1x LOGO! PC-cable (USB) 6ED1057-1AA01-0BA0

LOGO! PC-cable

4x LOGO! PC-cable (USB) 6ED1057-1AA01-0BA0



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ **Basic Automation**
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements:	WINXP, WIN7, WIN8, WIN10 ALL VERSIONS, 32/64 BIT MAC OSX 10.6 TO 10.9 LINUX SUSE 11.3, SP3, K 3.0.76	
Sales note:	Schools, colleges and universities, for in-house vocational training departments	
Technical note:	None available	
Order number:	12/24V : 6ED1057-3SA00-0YA1	Cable set: 6ED1057-3SA00-0YCO
	230V : 6ED1057-3SA00-0YB1	

SIMATIC Basic Panel KTP400 for LOGO! ETHERNET 1er

- 1 X SIMATIC HMI KTP400 BASIC COLOR PN, BASIC PANEL, KEY AND TOUCH OPERATION, 4" TFT DISPLAY, 65536 COLORS, PROFINET INTERFACE CONFIGURATION FROM WINCC BASIC V13/STEP 7 BASIC V13
- 1 X SCALANCE XB005 UNMANAGED INDUSTRIAL ETHERNET SWITCH FOR 10/100MBIT/S; WITH 5 X 10/100MBIT/S TWISTED PAIR PORTS WITH RJ45-SOCKETS; FOR CONFIGURING SMALL STAR AND LINE TOPOGRAPHIES; LED DIAGNOSTICS, IP20, 24 V DC POWER SUPPLY, INCL. MANUAL
- 2 X SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6, CROSSED TP CABLE 4X2, PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 6 M
- 1 X SIMATIC WINCC BASIC V14 ENGINEERING SW, FLOATING LICENSE SW AND DOCUMENTATION ON DVD, FOR CONFIGURATION OF SIMATIC BASIC PANELS

6AV2123-2DB03-0AX0

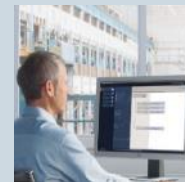
6GK5005-0BA00-1AB2

6XV1870-3RH60

6AV2100-0AA04-0AA5

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ **Basic Automation**
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements:	WINDOWS 7 (32 BIT, 64 BIT), WINDOWS 8 SP1 (64 BIT)
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



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SIMATIC Basic Panel KTP400 for LOGO! ETHERNET 6er

- 6 X SIMATIC HMI KTP400 BASIC COLOR PN, BASIC PANEL, KEY AND TOUCH OPERATION, 4" TFT DISPLAY, 65536 COLORS, PROFINET INTERFACE, CONFIGURATION FROM WINCC BASIC V13/STEP 7 BASIC V13.
- 6 X SCALANCE XB005 UNMANAGED INDUSTRIAL ETHERNET SWITCH FOR 10/100MBIT/S; WITH 5 X 10/100MBIT/S TWISTED PAIR PORTS WITH RJ45-SOCKETS; FOR CONFIGURING SMALL STAR AND LINE TOPOGRAPHIES; LED DIAGNOSTICS, IP20, 24 V DC POWER SUPPLY, INCL. MANUAL
- 12 X SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6, CROSSED TP CABLE 4X2, PREASSEMBLED WITH. 2 RJ45 CONNECTORS, LENGTH 6 M
- 6 X SIMATIC WINCC BASIC V14 ENGINEERING SW, FLOATING LICENSE SW AND DOCUMENTATION ON DVD, FOR CONFIGURATION OF SIMATIC BASIC PANELS

6AV2123-2DB03-0AX0

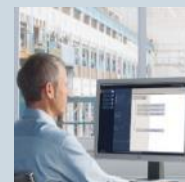
6GK5005-0BA00-1AB2

6XV1870-3RH60

6AV2100-0AA04-0AA5

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ **Basic Automation**
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements:	WINDOWS 7 (32 BIT, 64 BIT), WINDOWS 8 SP1 (64 BIT)
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



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Automation
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SIMATIC Basic Panel KTP400 for LOGO! ETHERNET



SIMATIC KTP400
BASIC COLOR PN
6AV2123-2DB03-0AX0



SCALANCE
XB005
6GK5005-0BA00-1AB2



SIMATIC WINCC BASIC V14
ENGINEERING SW
6AV2100-0AA04-0AA5



ETHERNET cable
6XV1870-3RH60

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ **Basic Automation**
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

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

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

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

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

SIMATIC S7-1200 AC/DC/RELAY or DC/DC/DC

6 X Alternative:

SIMATIC S7-1200, CPU 1214C, COMPACT CPU, AC/DC/RLY, ONBOARD IO: 14 DI 24V DC; 10 DO RELAY 0.5A; 2 AI 0 - 10V DC, POWER SUPPLY: 85 - 264 V AC @ 47 - 63 HZ, MEMORY: 75 KB

6ES7214-1BG40-0XB0

AC Pack. 6ES7214-1BE30-4AB3

6 X Alternative:

SIMATIC S7-1200, CPU 1214C, COMPACT CPU, DC/DC/DC, ONBOARD IO: 14 DI 24V DC; 10 DO 24 V DC; 2 AI 0 - 10V DC, POWER SUPPLY: 20.4 - 28.8 V DC, PROGRAM/DATA MEMORY: 75 KB

6ES7214-1AG40-0XB0

DC -Pack: 6ES7214-1AE30-4AB3

6 X SIMATIC S7, STEP 7 BASIC V14 FLOATING LICENSE, E-SW, SW AND DOCU. ON DVD, LICENSE KEY ON USB STICK, 2 LANGUAGES (GE,EN), REFERENCE HW: S7-1200

6ES7822-0AA04-0YA5

6 X SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6, CROSSED TP CABLE 4X2, PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 6 M

6XV1870-3RH60

6 X SIMATIC S7-1200, SIMULATOR MODULE, 8 CHANNEL SIMULATOR DC INPUT SWITCHES

6ES7274-1XF30-0XA0

6 X SIMATIC S7-1200, ANALOG OUTPUT SB 1232, 1 AO, +/- 10VDC OR 0 - 20 MA

6ES7232-4HA30-0XB0

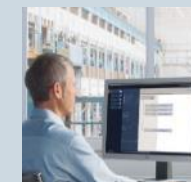
- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements: WINDOWS 7 (32 BIT, 64 BIT), WINDOWS 8 SP1 (64 BIT)

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

Technical note: Authorization for STEP 7 BASIC on USB stick

Order number:	AC/DC/RLY	DC/DC/DC
	6ES7214-1BE30-4AB3	6ES7214-1AE30-4AB3



Totally Integrated Automation
PORTAL

SIMATIC S7-1200 AC/DC/RELAIS or DC/DC/DC

Packages contains 6 times



Compact CPU
6ES7214-1BG40-0XB0
 alternatively:
6ES7214-1AG40-0XB0



ANALOG OUTPUT, SB 1232, 1 AO, +/-10VDC
 OR 0 - 20 MA (11 BIT RESOLUTION)
6ES7232-4HA30-0XB0



SIMULATOR MODULE,
 8 INPUT SWITCHES,
 DC INPUT
6ES7274-1XF30-0XA0



STEP 7 BASIC V14
6ES7822-0AA04-0YA5



ETHERNET cable
6XV1870-3RH60

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ **Basic Automation**
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

SIMATIC Basic Panel KTP700 for S7-1200 1er

- 1 X SIMATIC HMI, KTP700 BASIC, BASIC PANEL, KEY AND TOUCH OPERATION, 7" TFT DISPLAY, 65536 COLORS, PROFINET INTERFACE, CONFIGURATION FROM WINCC BASIC V13/ STEP7 BASIC V13
- 1 X SIMATIC HMI, KTP700 BASIC, BASIC PANEL, KEY AND TOUCH OPERATION, 7" TFT DISPLAY, 65536 COLORS, PROFINET INTERFACE, CONFIGURATION FROM WINCC BASIC V13/STEP 7 BASIC V13
- 1 X SCALANCE XB005 UNMANAGED INDUSTRIAL ETHERNET SWITCH FOR 10/100MBIT/S; WITH 5 X 10/100MBIT/S TWISTED PAIR PORTS WITH RJ45-SOCKETS; FOR CONFIGURING SMALL STAR AND LINE TOPOGRAPHIES; LED DIAGNOSTICS, IP20, 24 V DC POWER SUPPLY, INCL. MANUAL
- 2 X SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6, CROSSED TP CABLE 4X2, PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 6 M

6AV2123-2GB03-0AX0

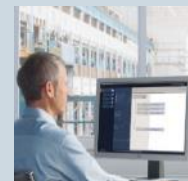
6GK5005-0BA00-1AB2

6XV1870-3RH60

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ **Basic Automation**
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

NOTE: SIMATIC STEP 7 /WinCC V13 is absolutely necessary for engineering – Upgrade [see slide 41](#).

System requirements:	WINDOWS 7 (32 BIT, 64 BIT), WINDOWS 8 SP1 (64 BIT)
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Engineering Software required
Order number:	6AV2123-2GB03-0AA1



Totally Integrated Automation
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SIMATIC Basic Panel KTP700 for S7-1200 6er

6 X SIMATIC HMI, KTP700 BASIC, BASIC PANEL, KEY AND TOUCH OPERATION, 7" TFT DISPLAY, 65536 COLORS, PROFINET INTERFACE, CONFIGURATION FROM WINCC BASIC V13/ STEP7 BASIC SIMATIC HMI, KTP700 BASIC, BASIC PANEL, KEY AND TOUCH OPERATION, 7" TFT DISPLAY, 65536 COLORS, PROFINET INTERFACE, CONFIGURATION FROM WINCC BASIC V13/STEP 7 BASIC V13

6AV2123-2GB03-0AX0

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ **Basic Automation**

6 X SCALANCE XB005 UNMANAGED INDUSTRIAL ETHERNET SWITCH FOR 10/100MBIT/S; WITH 5 X 10/100MBIT/S TWISTED PAIRPORTS WITH RJ45-SOCKETS; FOR CONFIGURING SMALL STAR- AND LINE TOPOGRAPHIES; LED-DIAGNOSIS, IP20, 24 V DC POWER SUPPLY, INCL. MANUAL

6GK5005-0BA00-1AB2

- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication

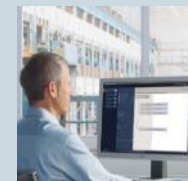
12 X SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6, CROSSED TP CABLE 4X2, PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 6 M

6XV1870-3RH60

- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

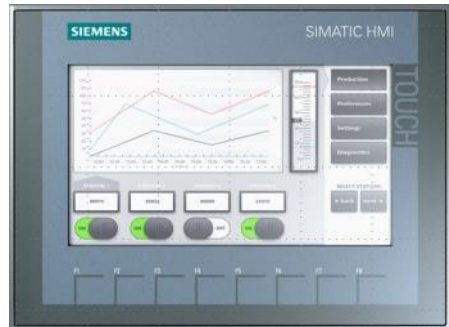
NOTE: SIMATIC STEP 7 /WinCC V13 is absolutely necessary for engineering – Upgrade [see slide 41](#).

System requirements:	WINDOWS 7 (32 BIT, 64 BIT), WINDOWS 8 SP1 (64 BIT)
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Engineering Software required
Order number:	6AV2123-2GB03-0AA0



Totally Integrated Automation
PORTAL

SIMATIC Basic Panel KTP700 for S7-1200



**SIMATIC KTP700
BASIC COLOR PN
6AV2123-2GB03-0AX0**



**SCALANCE XB005
6GK5005-0BA00-1AB2**



**ETHERNET cable
6XV1870-3RH60**

Package 6AV2123-2GB03-0AA1
contains 1 x

Package 6AV2123-2GB03-0AA1
contains 2 x

Package 6AV2123-2GB03-0AA0
contains 6 x

Package 6AV2123-2GB03-0AA0
contains 12 x

NOTE: SIMATIC STEP 7 /WinCC V13 is absolutely necessary for engineering – Upgrade see slide 41.

- Industrial Controls
- Engineering Software
- SIMIT Simulation
- Basic Automation**
- Controller/PLC
- Distributed I/Os
- Operator control & monitoring
- Process Automation
- Industrial Communication
- Sensor Technology
- Drive Technology
- CNC Software
- PLM Software
- Important Notes

SIMATIC STEP 7 Basic V14 – Software for Training Upgrade

SIEMENS

6 x STEP 7 Basic V14 Upgrade Version V10.5/ V11 /V12 /V13 to V14

SIMATIC STEP 7 BASIC V14 TRAINER PACKAGE UPGRADE V14
ENGINEERING SOFTWARE; UPGRADE FOR 6 V10.5/V11/V12/V13
SINGLE FLOATING-> V14 FLOATING; SOFTWARE AND DOCU. ON DVD;
LICENSE KEYS ON USB; 6 LANGUAGES (GE, EN, IT, FR, ES, ZH)
FOR CONFIGURATION OF SIMATIC S7-1200, SIMATIC BASIC PANELS

6 x SINAMICS Startdrive V14 for SINAMICS G120 CONTROL UNIT CU240E-2 , CU250S-2, as of Firmware V4.6

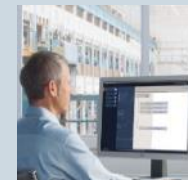
Package with:

2 * DVDs SIMATIC STEP 7 Basic V14, 2 * PLCSIM V14, 2 * DVDs SINAMICS Startdrive V14

For Hardware Package S7-1200, [see slide 36](#) and Basic Panel KTP400, [see slide 33, 34](#) and Basic Panel KTP700, [see slide 38, 39](#)

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ **Basic Automation**
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements:	WINDOWS 7 (32 BIT, 64 BIT), WINDOWS 8 SP1 (64 BIT)
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Authorization on USB stick
Order number:	6ES7822-0AA04-4YE5



Totally
Integrated
Automation
PORTAL

Distributed Controller

- S7-1515SP PC F + HMI (ET 200SP Open Controller)
- S7-1512SP F-1 PN (ET 200SP Distributed Controller)

Advanced Controller

- S7-1516F PN/DP
- S7-1516 PN/DP
- S7-1512C PN

-
- S7-314C-2PN/DP
 - S7-314C-2PN/DP (Upgrade TIA Portal)
 - S7-315F-2PN/DP
 - S7-315T Technology
 - Soft-SPS WinAC F RTX 2010

S7-300 Safety

ET 200SP Open Controller CPU 1515SP PC F with S7-1500 SW controller + HMI 512PT WinCC Runtime Adv.

SIEMENS

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements:	64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1, Windows 8.1 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	SIMATIC STEP 7 Professional V14 necessary
Order number:	6ES7677-2FA41-4AB1

ET 200SP Open Controller CPU 1515SP PC F with S7-1500 SW controller + HMI 512PT WinCC Runtime Adv.

SIEMENS

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Recommended accessories:

6ES7134-6PA00-0BD0
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

6EP1334-1LB00
Power Supply
INPUT: AC 120/230 V
OUTPUT: DC 24 V/10 A

6GK1950-0BB00
Trainer Package: FASTCONNECT
connection technology

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

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

ET 200SP Distributed Controller CPU 1512SP F-1 PN

SIEMENS

- 1 X STANDARD MOUNTING RAIL, LENGTH: 483 mm, FOR 19" CABINETS
- 1 X SIMATIC DP, CPU 1512SP F-1 PN FOR ET 200SP, CENTRAL PROCESSING UNIT WITH WORKING MEMORY 300 KB FOR PROGRAM AND 1 MB FOR DATA, 1. INTERFACE, PROFINET IRT WITH 3 PORT SWITCH, 48 NS BIT-PERFORMANCE, SIMATIC MEMORY CARD NECESSARY
- 1 X SIMATIC S7, MEMORY CARD FOR S7-1X00 CPU/SINAMICS, 3,3 V FLASH, 24 MBYTE
- 2 X DI 8x24VDC/0,5A HF
- 2 X DQ 8x24VDC/0,5A HF
- 1 X Bus adapter 2X RJ45
- 4 X BU type A0, push-in, 2 infeed terminal separated (digital/analog, max. 24VDC/10A
- 1 X Color-coded labels 16 process terminals, gray/red, CC01, 10 units
- 1 X 1000 Color-coded labels, 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, CROSSED TP CABLE 4X2, PREASSEMBLED W. 2 RJ45 CONNECTORS, LENGTH 6 M
- 1 X SIMATIC STEP 7 Professional – Software for Training 1er Lizenz, see slide 16

6ES5710-8MA11

6ES7512-1SK01-0AB0

6ES7954-8LF02-0AA0

6ES7131-6BF00-0CA0

6ES7132-6BF00-0CA0

6ES7193-6AR00-0AA0

6ES7193-6BP00-0DA0

6ES7193-6CP01-2MA0

6ES7193-6LA10-0AA0

6ES7193-6CP02-2MA0

6XV1870-3RH60

6ES7822-1AA04-4YA5

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

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

System requirements:	64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1, Windows 8.1 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
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 necessary
Order number:	6ES7512-1SK00-4AB2

ET 200SP Distributed Controller CPU 1512SP F-1 PN

SIEMENS



1 x ET 200SP
Distributed Controller



Bus adapter



2 x DI 8x24
VDC/
0,5A HF



2 x DQ 8x24
VDC/
0,5A HF



4 x Base
Units



1 x ETHERNET
-cable



Color-coded labels
Labeling strips



1 x Memory
Card 24 MB



Recommended accessories:

6ES7134-6PA00-0BD0
ANALOG INPUT MODULE,
AI ENERGY METER

6ES7137-6BD00-0BA0
COMMUNICATION MODULE
IO-LINK MASTER

3RK7137-6SA00-0BC1
COMMUNICATION
MODULE ASI MASTER

6EP1334-1LB00
Power Supply
INPUT: AC 120/230 V
OUTPUT: DC 24 V/10 A

6ES7193-6BP00-0BD0
BASEUNIT

6ES7193-6BP00-0DA0
BASEUNIT

6ES7193-6BP20-0DC0
BASEUNIT

6GK1950-0BB00
Trainer Package: FASTCONNECT
connection technology

6ES7193-6SC00-1AM0
5 SHIELDING TERMINALS



STEP 7 Professional
SW for Training 1er Lizenz

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

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

SIMATIC S7-1516F PN/DP

1 X SIMATIC PM 1507 24 V/8 A STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V/8 A DC	6EP1333-4BA00	▶ Industrial Controls
1 X SIMATIC S7-1500F, CPU 1516F-3 PN/DP, WITH WORKING MEMORY 1,5 MB FOR PROGRAM, 5 MB FOR DATA, 1. INTERFACE, PROFINET IRT WITH 2 PORT SWITCH, 2. INTERFACE, ETHERNET, 3. INTERFACE, PROFIBUS, 10 NS BIT-PERFORMANCE, SIMATIC MEMORY CARD NECESSARY	6ES7516-3FN01-0AB0	▶ Engineering Software
1 X SIMATIC S7-1500, DIGITAL INPUT MODULE DI32 X DC24V, 32 CHANNELS IN GROUPS OF 16;	6ES7521-1BL00-0AB0	▶ SIMIT Simulation
1 X SIMATIC S7-1500, DIGITAL OUTPUT MODULE DQ 32 X 24VDC/0.5A; 32 CHANNELS	6ES7522-1BL01-0AB0	▶ Basic Automation
1 X SIMATIC S7-1500, ANALOG INPUT MODULE AI 8 X U/I/RTD/TC, 16 BITS OF RESOLUTION, ACCURACY 0.3 %; 8 CHANNELS	6ES7531-7KF00-0AB0	▶ Controller/PLC
1 X SIMATIC S7-1500, ANALOG OUTPUT MODULE AQ 4 X U/I ST; 16 BITS OF RESOLUTION, ACCURACY 0.3 %; 4 CHANNELS IN GROUPS OF 4;	6ES7532-5HD00-0AB0	▶ Distributed I/Os
1 X SIMATIC S7-1500, MOUNTING RAIL 482 MM (APPR. 19 INCH) INCL. GROUNDING ELEMENT, INTEGRATED DIN RAIL FOR MOUNTING OF SMALL COMPONENTS SUCH AS CLAMPS, FUSES OR RELAYS	6ES7590-1AE80-0AA0	▶ Operator control & monitoring
1 X SIMATIC S7-1500, PROFILSCHIENE 482 MM	6ES7590-1AE80-0AA0	▶ Process Automation
1 X SIMATIC S7, MEMORY CARD FOR S7-1X00 CPU/SINAMICS, 3,3 V FLASH, 24 MBYTE	6ES7954-8LF01-0AA0	▶ Industrial Communication
4 X SIMATIC S7-1500, FRONTCONNECTOR SCREW-TYPE, 40PIN, FOR 35MM WIDE MODULES	6ES7592-1AM00-0XB0	▶ Sensor Technology
1 X SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6, CROSSED TP CABLE 4X2, PREASSEMBLED W. 2 RJ45 CONNECTORS, LENGTH 6 M	6XV1870-3RH60	▶ Drive Technology
1 x SIMATIC STEP 7 Professional – Software for Training 1er Lizenz, see slide 16	6ES7822-1AA04-4YA5	▶ CNC Software

- ▶ PLM Software
- ▶ Important Notes

System requirements:	64 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1, Windows 8.1 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	SIMATIC STEP 7 Professional und Safety Advanced V13 SP1 Update 4 necessary
Order number:	6ES7516-3FN00-4AB2

Core product
for vocational
World Cup
Industrial
Control



SIMATIC S7-1516F PN/DP



1x CPU

1516F PN/DP INPUT MODULE
DI 32 X DC24V



1x DIGITAL

INPUT MODULE
DI 32 X DC24V



1x DIGITAL
OUTPUT MODULE

DQ 32 X DC24V/0.5A



1x ANALOG
INPUT MODULE

AI 8 X U/I/RTD/TC



1x ANALOG
OUTPUT MODULE

AQ 4 X U/I ST



1x Power Supply

Input AC: 120/230V;
Output DC: 24V, 8A



4x Front
Connector
40-Pole



1x Memory
Card 24 MB



1x ETHERNET
Cable



1x SIMATIC
S7-1500, MOUNTING
RAIL 482 MM



STEP 7 Professional
SW for Training 1er Lizenz

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

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

SIMATIC S7-1516 PN/DP

1 X SIMATIC PM 1507 24 V/8 A STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V/8 A DC	6EP1333-4BA00	▶ Industrial Controls
1 X SIMATIC S7-1500, CPU 1516-3 PN/DP, WITH WORKING MEMORY 1 MB FOR PROGRAM , 5 MB FOR DATA, 1. INTERFACE, PROFINET IRT WITH 2 PORT SWITCH, 2. INTERFACE, ETHERNET, 3. INTERFACE, PROFIBUS, 10 NS BIT-PERFORMANCE, SIMATIC MEMORY CARD NECESSARY	6ES7516-3AN01-0AB0	▶ Engineering Software
1 X SIMATIC S7-1500, DIGITAL INPUT MODULE DI32 X DC24V, 32 CHANNELS IN GROUPS OF 16;	6ES7521-1BL00-0AB0	▶ SIMIT Simulation
1 X SIMATIC S7-1500, DIGITAL OUTPUT MODULE DQ 32 X 24VDC/0.5A; 32 CHANNELS	6ES7522-1BL01-0AB0	▶ Basic Automation
1 X SIMATIC S7-1500, ANALOG INPUT MODULE AI 8 X U/I/RTD/TC, 16 BITS OF RESOLUTION, ACCURACY 0.3 %; 8 CHANNELS	6ES7531-7KF00-0AB0	▶ Controller/PLC
1 X SIMATIC S7-1500, ANALOG OUTPUT MODULE AQ 4 X U/I ST; 16 BITS OF RESOLUTION, ACCURACY 0.3 %; 4 CHANNELS IN GROUPS OF 4;	6ES7532-5HD00-0AB0	▶ Distributed I/Os
1 X SIMATIC S7-1500, MOUNTING RAIL 482 MM (APPR. 19 INCH) INCL. GROUNDING ELEMENT, INTEGRATED DIN RAIL FOR MOUNTING OF SMALL COMPONENTS SUCH AS CLAMPS, FUSES OR RELAYS	6ES7590-1AE80-0AA0	▶ Operator control & monitoring
1 X SIMATIC S7, MEMORY CARD FOR S7-1X00 CPU/SINAMICS, 3,3 V FLASH, 24 MBYTE	6ES7954-8LF01-0AA0	▶ Process Automation
4 X SIMATIC S7-1500, FRONTCONNECTOR SCREW-TYPE, 40PIN, FOR 35MM WIDE MODULES	6ES7592-1AM00-0XB0	▶ Industrial Communication
1 X SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6, CROSSED TP CABLE 4X2, PREASSEMBLED W. 2 RJ45 CONNECTORS, LENGTH 6 M	6XV1870-3RH60	▶ Sensor Technology
1 X SIMATIC STEP 7 Professional – Software for Training 1er Lizenz, siehe Folie 16	6ES7822-1AA04-4YA5	▶ Drive Technology

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements: 64 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

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

Technical note: SIMATIC STEP 7 Professional V13 SP1 Update 4 necessary

Order number: 6ES7516-3AN00-4AB3

SIMATIC S7-1516 PN/DP



1x CPU
1516 PN/DP



1x DIGITAL
INPUT MODULE
DI 32 X DC24V



1x DIGITAL
OUTPUT MODULE
DQ 32 X DC24V/0.5A



1x ANALOG
INPUT MODULE
AI 8 X U/I/RTD/TC



1x ANALOG
OUTPUT MODULE
AQ 4 X U/I ST



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



4x Front
Connector
40-Pole



1x Memory
Card 24 MB



1x ETHERNET
Cable



1x SIMATIC
S7-1500, MOUNTING
RAIL 482 MM



STEP 7 Professional
SW for Training 1er Lizenz

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes








For engineering SIMATIC STEP 7 Professional ≥ V13 SP1 Update 4 is absolutely necessary

SIMATIC S7-1512C-1 PN

Overview

SIEMENS

Packages

							Order-No:
1x CPU 1512C-1 PN	1x Memory Card 24 MB	1x SIMATIC S7-1500, MOUNTING RAIL 482 MM	1x ETHERNET -Cable	STEP 7 Professional SW for Training 1er Licence	1x Power Supply Input: AC 120/230V; Output: DC 24V, 8A	1x Communication Processor (PROFIBUS) CP 1542-5	
✓	✓	✓	✓	✓	✓		6ES7512-1CK00-4AB1
✓	✓	✓	✓	✓	✓	✓	6ES7512-1CK00-4AB2
✓	✓	✓	✓	✓			6ES7512-1CK00-4AB6
✓	✓	✓	✓	✓		✓	6ES7512-1CK00-4AB7

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Recommended accessory:

6XV1870-3RH60

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD
RJ45/RJ45, CROSSED TP CABLE 4X2, PREASSEMBLED
WITH 2 RJ45 CONNECTORS, LENGTH 6 M

6GK1950-0BB00

Trainer Package:
FASTCONNECT Accessories Kit

For engineering SIMATIC STEP 7 Professional ≥ V13 SP1 Update 4 is absolutely necessary

SIMATIC S7-1512C-1 PN (with Power Supply / without CP for PROFIBUS DP)

1 X SIMATIC PM 1507 24 V/8 A STABILIZED POWER SUPPLY FOR SIMATIC S7-1500 INPUT: 120/230 V AC OUTPUT: 24 V/8 A DC	6EP1333-4BA00	▶ Industrial Controls
1 X SIMATIC S7-1500 COMPACT CPU ,CPU 1512C-1 PN, CENTRAL PROCESSING UNIT WITH WORKING MEMORY 250 KB FOR PROGRAM AND 1 MB FOR DATA, 32 DIGITAL INPUTS, 32 DIGITAL OUTPUTS, 5 ANALOG INPUTS, 2 ANALOG OUTPUTS, 6 HIGH SPEED COUNTERS, 1. INTERFACE: PROFINET IRT WITH 2 PORT SWITCH, 48 NS BIT-PERFORMANCE, INCL.FRONT CONNECTOR, SIMATIC MEMORY CARD NECESSARY	6ES7512-1CK00-0AB0	▶ Engineering Software
1 X SIMATIC S7-1500, MOUNTING RAIL 482 MM (APPR. 19 INCH) INCL. GROUNDING ELEMENT, INTEGRATED DIN RAIL FOR MOUNTING OF SMALL COMPONENTS SUCH AS CLAMPS, FUSES OR RELAYS	6ES7590-1AE80-0AA0	▶ SIMIT Simulation
1 X SIMATIC S7, MEMORY CARD FOR S7-1X00 CPU/SINAMICS, 3,3 V FLASH, 24 MBYTE	6ES7954-8LF02-0AA0	▶ Basic Automation
1 X SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6A, CROSSED TP CABLE 4X2, PREASSEMBLED W. 2 RJ45 CONNECTORS, LENGTH 6 M	6XV1870-3RH60	▶ Controller/PLC
1 X SIMATIC STEP 7 Professional – Software for Training 1er Lizenz, see Slides 16	6ES7822-1AA04-4YA5	▶ Distributed I/Os
		▶ Operator control & monitoring
		▶ Process Automation
		▶ Industrial Communication
		▶ Sensor Technology
		▶ Drive Technology
		▶ CNC Software
		▶ PLM Software
		▶ Important Notes

System requirements: 64 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

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

Technical note: SIMATIC STEP 7 Professional V13 SP1 Update 4 necessary

Order number: 6ES7512-1CK00-4AB1

SIMATIC S7-1512C-1 PN (with Power Supply / with CP for PROFIBUS DP)

1 X SIMATIC PM 1507 24 V/8 A STABILIZED POWER SUPPLY FOR SIMATIC S7-1500 INPUT: 120/230 V AC OUTPUT: 24 V/8 A DC	6EP1333-4BA00	▶ Industrial Controls
1 X SIMATIC S7-1500 COMPACT CPU , CPU 1512C-1 PN, CENTRAL PROCESSING UNIT WITH WORKING MEMORY 250 KB FOR PROGRAM AND 1 MB FOR DATA, 32 DIGITAL INPUTS, 32 DIGITAL OUTPUTS, 5 ANALOG INPUTS, 2 ANALOG OUTPUTS, 6 HIGH SPEED COUNTERS, 1. INTERFACE: PROFINET IRT WITH 2 PORT SWITCH, 48 NS BIT-PERFORMANCE, INCL.FRONT CONNECTOR, SIMATIC MEMORY CARD NECESSARY	6ES7512-1CK00-0AB0	▶ Engineering Software ▶ SIMIT Simulation ▶ Basic Automation
1 X COMMUNICATION PROCESSOR CP 1542-5 FOR CONNECTING SIMATIC S7-1500 TO PROFIBUS DP DPV1-MASTER OR DP-SLAVE, S7-AND PG/OP COMMUNICATION, CLOCK SYNCHRONISATION DIAGNOSTICS, LESS DATA	6GK7542-5FX00-0XE0	▶ Controller/PLC ▶ Distributed I/Os
1 X SIMATIC S7-1500, MOUNTING RAIL 482 MM (APPR. 19 INCH) INCL. GROUNDING ELEMENT, INTEGRATED DIN RAIL FOR MOUNTING OF SMALL COMPONENTS SUCH AS CLAMPS, FUSES OR RELAYS	6ES7590-1AE80-0AA0	▶ Operator control & monitoring ▶ Process Automation
1 X SIMATIC S7, MEMORY CARD FOR S7-1X00 CPU/SINAMICS, 3,3 V FLASH, 24 MBYTE	6ES7954-8LF02-0AA0	▶ Industrial Communication
1 X SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6A, CROSSED TP CABLE 4X2, PREASSEMBLED W. 2 RJ45 CONNECTORS, LENGTH 6 M	6XV1870-3RH60	▶ Sensor Technology
1 X SIMATIC STEP 7 Professional – Software for Training 1er Lizenz, see Slides 16	6ES7822-1AA04-4YA5	▶ Drive Technology ▶ CNC Software ▶ PLM Software

System requirements: 64 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

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

Technical note: SIMATIC STEP 7 Professional V13 SP1 Update 4 necessary

Order number: 6ES7512-1CK00-4AB2

SIMATIC S7-1512C-1 PN (without Power Supply/without CP for PROFIBUS DP)

1 X SIMATIC S7-1500 COMPACT CPU , CPU 1512C-1 PN, CENTRAL PROCESSING UNIT WITH WORKING MEMORY 250 KB FOR PROGRAM AND 1 MB FOR DATA, 32 DIGITAL INPUTS, 32 DIGITAL OUTPUTS, 5 ANALOG INPUTS, 2 ANALOG OUTPUTS, 6 HIGH SPEED COUNTERS, 1. INTERFACE: PROFINET IRT WITH 2 PORT SWITCH, 48 NS BIT-PERFORMANCE, INCL.FRONT CONNECTOR, SIMATIC MEMORY CARD NECESSARY	6ES7512-1CK00-0AB0	<ul style="list-style-type: none"> ▶ Industrial Controls ▶ Engineering Software ▶ SIMIT Simulation
1 X SIMATIC S7-1500, MOUNTING RAIL 482 MM (APPR. 19 INCH) INCL. GROUNDING ELEMENT, INTEGRATED DIN RAIL FOR MOUNTING OF SMALL COMPONENTS SUCH AS CLAMPS, FUSES OR RELAYS	6ES7590-1AE80-0AA0	<ul style="list-style-type: none"> ▶ Basic Automation
1 X SIMATIC S7, MEMORY CARD FOR S7-1X00 CPU/SINAMICS, 3,3 V FLASH, 24 MBYTE	6ES7954-8LF02-0AA0	<ul style="list-style-type: none"> ▶ Controller/PLC
1 X SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6A, CROSSED TP CABLE 4X2, PREASSEMBLED W. 2 RJ45 CONNECTORS, LENGTH 6 M	6XV1870-3RH60	<ul style="list-style-type: none"> ▶ Distributed I/Os ▶ Operator control & monitoring
1 X SIMATIC STEP 7 Professional – Software for Training 1er Lizenz, see Slides 16	6ES7822-1AA04-4YA5	<ul style="list-style-type: none"> ▶ Process Automation ▶ Industrial Communication ▶ Sensor Technology ▶ Drive Technology ▶ CNC Software ▶ PLM Software ▶ Important Notes

System requirements: 64 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

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

Technical note: SIMATIC STEP 7 Professional V13 SP1 Update 4 necessary

Order number: 6ES7512-1CK00-4AB6

SIMATIC S7-1512C-1 PN (without Power Supply / with CP for PROFIBUS DP)

1 X SIMATIC S7-1500 COMPACT CPU, CPU 1512C-1 PN, CENTRAL PROCESSING UNIT WITH WORKING MEMORY 250 KB FOR PROGRAM AND 1 MB FOR DATA, 32 DIGITAL INPUTS, 32 DIGITAL OUTPUTS, 5 ANALOG INPUTS, 2 ANALOG OUTPUTS, 6 HIGH SPEED COUNTERS, 1. INTERFACE: PROFINET IRT WITH 2 PORT SWITCH, 48 NS BIT-PERFORMANCE, INCL.FRONT CONNECTOR, SIMATIC MEMORY CARD NECESSARY	6ES7512-1CK00-0AB0	<ul style="list-style-type: none"> ▶ Industrial Controls ▶ Engineering Software ▶ SIMIT Simulation
1 X COMMUNICATION PROCESSOR CP 1542-5 FOR CONNECTING SIMATIC S7-1500 TO PROFIBUS DP DPV1-MASTER OR DP-SLAVE, S7-AND PG/OP COMMUNICATION, CLOCK SYNCHRONISATION DIAGNOSTICS, LESS DATA	6GK7542-5FX00-0XE0	<ul style="list-style-type: none"> ▶ Basic Automation
1 X SIMATIC S7-1500, MOUNTING RAIL 482 MM (APPR. 19 INCH) INCL. GROUNDING ELEMENT, INTEGRATED DIN RAIL FOR MOUNTING OF SMALL COMPONENTS SUCH AS CLAMPS, FUSES OR RELAYS	6ES7590-1AE80-0AA0	<ul style="list-style-type: none"> ▶ Controller/PLC ▶ Distributed I/Os ▶ Operator control & monitoring
1 X SIMATIC S7, MEMORY CARD FOR S7-1X00 CPU/SINAMICS, 3,3 V FLASH, 24 MBYTE	6ES7954-8LF02-0AA0	<ul style="list-style-type: none"> ▶ Process Automation
1 X SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6A, CROSSED TP CABLE 4X2, PREASSEMBLED W. 2 RJ45 CONNECTORS, LENGTH 6 M	6XV1870-3RH60	<ul style="list-style-type: none"> ▶ Industrial Communication
1 X SIMATIC STEP 7 Professional – Software for Training 1er Lizenz, see Slides 16	6ES7822-1AA04-4YA5	<ul style="list-style-type: none"> ▶ Sensor Technology ▶ Drive Technology ▶ CNC Software ▶ PLM Software ▶ Important Notes

System requirements: 64 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

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

Technical note: SIMATIC STEP 7 Professional V13 SP1 Update 4 necessary

Order number: 6ES7512-1CK00-4AB7

SIMATIC S7-314C-2 PN/DP

Available until Dec. 31, 2017

1 X SIMATIC S7-300, CPU 314C-2 PN/DP COMP.CPU WITH MPI, 24 DI/16 DO, 4AI, 2AO, 1 PT100, 4 FAST COUNTERS (60 KHZ), INTEGRATED DP INTERFACE, INTEGRATED 24V DC POWER SUPPLY, 192 KBYTE	6ES7314-6EH04-0AB0
1 X SIMATIC S7-300 PS307 IN:120/230 V AC OUT: 24 V DC/5 A	6ES7307-1EA01-0AA0
2 X SIMATIC S7-300, FRONT CONNECTOR 392 WITH SCREW CONTACTS, 40-POLE	6ES7392-1AM00-0AA0
1 X SIMATIC S7-300, SIMULATOR MODULE SM 374, FOR SIMULATING 16 INPUTS OR 16 OUTPUTS RESP. 8 INPUTS AND 8 OUTPUTS; 16 SWITCHES, 16 LED	6ES7374-2XH01-0AA0
1 X SIMATIC S7-300, RAIL L=480MM	6ES7390-1AE80-0AA0
1 X SIMATIC S7, MICRO MEMORY CARD FOR S7-300/C7/ET 200S IM151 CPU, 3.3 V NFLASH, 512 KBYTES	6ES7953-8LJ30-0AA0
1 X SIMATIC S7, PC ADAPTER USB A2 FOR CONNECTION OF S7-200/300/400 C7; WITH USB-CABLE (5M)	6GK1571-0BA00-0AA0

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Recommended accessory:

6XV1870-3RH60

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CROSSED TP CABLE 4X2, PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 6 M

6GK1950-0BB00

Trainer Package: FASTCONNECT Accessories Kit

System requirements: 64 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1
32 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1

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

Technical note: STEP 7 V5.5, V11, V12, V13, V14 required

Order number: 6ES7314-6EH04-4AB3

SIMATIC S7-314C-2 PN/DP

Available until Dec. 31, 2017



1x Power Supply PS 307,
AC 120/230V; DC 24V, 5A



1x CPU314C-2 PN/DP
with 192 KByte
memory



1x Micro Memory Card
512 KByte



SIMULATOR MODULE SM 374



2x FRONT
CONNECTOR
for SM, 40-Pole



PC Adapter
USB



1x Rail L=480mm

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

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

SIEMENS

Available until Dec. 31, 2017

- | | |
|---|--------------------|
| 1 X SIMATIC S7-300, CPU 314C-2PN/DP COMPACT CPU WITH 192 KBYTE WORKING MEMORY, 24 DI/16 DO, 4AI, 2AO, 1 PT100, 4 FAST COUNTERS (60 KHZ), 1. INTERFACE MPI/DP 12MBIT/S, 2. INTERFACE ETHERNET PROFINET, WITH 2 PORT SWITCH, INTEGRATED 24V DC POWER SUPPLY, FRONT CONNECTOR (2 X 40-POLE) AND MICRO MEMORY CARD REQUIRED | 6ES7314-6EH04-0AB0 |
| 1 X SIMATIC S7, MICRO MEMORY CARD FOR S7-300, 3.3 V NFLASH, 512 KBYTES | 6ES7953-8LJ30-0AA0 |
| 1 X SIMATIC S7-300, DIGITAL MODULE SM 323, OPTICALLY ISOLATED, 16 DI AND 16 DO, 24V DC, 0.5A, AGGREGATE CURRENT 4A, 1 X 40-POLE | 6ES7323-1BL00-0AA0 |
| 3 X SIMATIC S7-300, FRONT CONNECTOR 392 WITH SCREW CONTACTS, 40-POLE | 6ES7392-1AM00-0AA0 |
| 1 X SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6, CROSSED TP CABLE 4X2, PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 6 M | 6XV1870-3RH60 |

Recommended accessory:

6GK1950-0BB00

Trainer Package:
FASTCONNECT Accessories Kit

System requirements:	64 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1 32 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	STEP 7 V5.5, V11, V12, V13, V14 required
Order number:	6ES7314-6EH04-4AB4

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

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

SIEMENS

Available until Dec. 31, 2017



1x CPU314C-2 PN/DP
with 192 KByte
memory



1x Digital Modul
SM 323, 16 DI and 16 DO,
DC 24V, 0,5A, 40 POLE



1x Micro Memory
Card 512 KByte



3x FRONT
CONNECTOR
for SM, 40-Pole



ETHERNET-cable
6XV1870-3RH60

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

SIMATIC S7-315F-2 PN/DP – PROFINET

Available until Dec. 31, 2017

- 1 x Rail L=480mm
- 1 x Power Supply PS 307, AC 120/230V; DC 24V, 5A
- 1 x CPU315F-2 PN/DP with 512 KByte, Working Memory
- 1 x Micro Memory Card 512 KByte
- 1 x Digital Module SM 323, 16 DE and 16 DA, C 24V, 0,5A, 40 POLIG
- 1 x Front Connector for SM, 40-Pole
- 1 x Analog Module SM 334, 4 AE/2 AA, 20-Pole
- 1 x Front Connector for SM, 20-Pole
- 1 x Distributed Safety V5.4, Floating License

Recommended accessory:

6XV1870-3RH60

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD
RJ45/RJ45, CROSSED TP CABLE 4X2, PREASSEMBLED
WITH 2 RJ45 CONNECTORS, LENGTH 6 M

6GK1950-0BB00

Trainer Package:
FASTCONNECT Accessories Kit

Complementary to: Trainer Package F-Technology S7-300 – PROFINET 6ES7326-2FS00-4AB1

System requirements:	64 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1 32 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	STEP 7 V5.5, V11, V12, V13, V14 required
Order number:	6ES7315-2FH14-4AB1

- 6ES7390-1AE80-0AA0
- 6ES7307-1EA01-0AA0
- 6ES7315-2FJ14-0AB0
- 6ES7953-8LJ30-0AA0
- 6ES7323-1BL00-0AA0
- 6ES7392-1AM00-0AA0
- 6ES7334-0CE01-0AA0
- 6ES7392-1AJ00-0AA0
- 6ES7833-1FC02-0YA5

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

SIMATIC S7-315F-2 PN/DP – PROFINET

Available until Dec. 31, 2017



1x Power Supply PS 307,
AC 120/230V; DC 24V, 5A



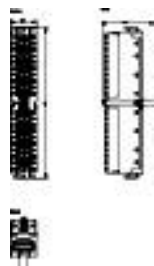
1x CPU315F-2 PN/DP
with 512 KByte Memory



1x Micro Memory Card
512 KByte



1x Rail L = 480mm



1x Front Connector
for SM, 40-Pole



1x Digital Module SM 323,
16 DI and 16 DO, DC 24V,
0,5A, 40-Pole



1x Analog Module SM 334,
4 AE/2 AA, 20-Pole



1x Front Connector
for SM, 20-Pole



1x Distributed
Safety V5.4,
Floating License

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Recommended accessory:

6XV1870-3RH60

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD
RJ45/RJ45, CROSSED TP CABLE 4X2, PREASSEMBLED
WITH 2 RJ45 CONNECTORS, LENGTH 6 M

6GK1950-0BB00

Trainer Package:
FASTCONNECT Accessories Kit

SIMATIC S7-300 F-Technology Safety In-/Output Module

SIEMENS

Available until Dec. 31, 2017

1 x F-Digital Input SM 326, 24 DE
1 x F-Digital Output SM 326, 8 DA; DC 24V, 2A
1 x Separator Module
2 x Front Connector for SM, 40-Pole

[6ES7326-1BK02-0AB0](#)

[6ES7326-2BF41-0AB0](#)

[6ES7195-7KF00-0XA0](#)

[6ES7392-1AM00-0AA0](#)

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Complementary to: Trainer PackageS7-mEC –modular Embedded: 6ES7677-1FD00-4AB1 / CPU315F-2 PN/DP: 6ES7315-2FH14-4AB1

System requirements:	64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Safety-CPU required
Order number:	6ES7326-2FS00-4AB1

SIMATIC S7-300 F-Technology

Available until Dec. 31, 2017



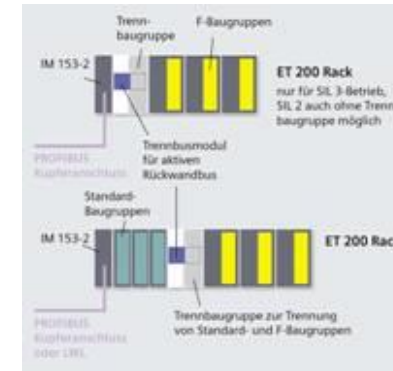
1x F-Digital Input
SM 326,
24 DE



1x F-Digital Output
SM 326,
8 DA; DC 24V, 2A



2x Front Connector
for SM, 40-Pole



1x Separator Module

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

SIMATIC S7-315T Technology-PLC Motion Control

SIEMENS

Available until Dec. 31, 2017

- 1 x Mounting rail L=480mm
- 1 x Power supply PS 307, AC 120/230V; DC 24V, 5A
- 1 x 315T-3 PN/DP with 384 KB working memory
- 2 x Front connector for CPU, 40-pole
- 1 x Micro Memory Card 8 MB
- 1 x Digital Module SM 323, 16 DI and 16 DO, DC 24V, 0,5A, 40-Pole
- 1 x SIMATIC S7-300, Interface Module IM174 for connection analog drives and step drives via isochronous PROFIBUS
- 1 x Front Connector for IM, 40-Pole
- 1 x SIMATIC NET, connection cable 830-2 for PROFIBUS, preassembled cable with two Sub-D connectors 9-pole, terminating resistors, 3m
- 1 x INDUSTRIAL ETHERNET CORD RJ45/RJ45, CROSSED TP CABLE 4X2, PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 6 M
- 1 x SIMATIC S7, S7-Technology V4.2, SP4 Optional Package for STEP 7, Floating License

6ES7390-1AE80-0AA0
6ES7307-1EA01-0AA0
6ES7315-7TJ10-0AB0
6ES7392-1AM00-0AA0
6ES7953-8LP31-0AA0
6ES7323-1BL00-0AA0
6ES7174-0AA10-0AA0

6ES7392-1AM00-0AA0
6XV1830-2AH30

6XV1870-3RH60

6ES7864-1CC42-0YA5

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements: 64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

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

Technical note: STEP 7 V5.5 required

Order number: 6ES7315-7TJ10-0AB1

SIMATIC S7-315T Technology-PLC Motion Control

SIEMENS

Available until Dec. 31, 2017



1x Rail
L=480mm



1x Power Supply PS 307,
AC 120/230V; DC 24V, 5A



1x 315T-3 PN/DP
with 384 KB
Working Memory



1x Micro Memory Card
8 MB



3x Front Connector
for SM, 40-Pole



1x ETHERNET
Cable



1x Digital Module SM 323,
16 DI and 16 DO, DC 24V,
0.5A, 40-Pole



1x SIMATIC S7-300,
Interface Module IM174,
for connection of analog
drives and step drives
via isochronous PROFIBUS



1x SIMATIC S7,
S7-Technology V4.2 SP4
Options package for
STEP 7, Floating license

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

SIMATIC WinAC RTX F 2010 PC-based Control

Available until Dec. 31, 2017

1x WinAC Basis RTX F 2010 (6ES7671-1RC08-0YA0)

1x CP 5622 PCI EXPRESS X1-CARD FOR CONNECTING A PG OR PC
WITH PCI EXPRESS-BUS TO PROFIBUS OR MPI (6GK1562-2AA00)

Single License for 1 Installation

Runtime-SW, SW and

Documentation on DVD

SW-Class A, 3-speaking (D,E,F)

Reference-Hardware: SIMATIC PC, SIMATIC S7-mEC



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ **Controller/PLC**
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements:	32 BIT: Windows 7 Professional, Ultimate SP1, Windows XP Professional SP3, INTERVALZERO RTX
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	STEP 7 V5.5, V11, V12, V13,V14 required
Order number:	6ES7671-1RC08-0YS0

- **Overview**
 - **Basic modules**
 - ET 200SP
 - ET 200SP with communication module – AS-i Master
 - ET 200SP with input module – Energy Meter
 - ET 200SP with communication module – IO-Link
 - **Expansion modules**
 - ET 200SP expansion – Analog
 - ET 200SP expansion – Safety

SIMATIC ET 200SP

- 1 X Standard mounting rail, length: 483 mm, for 19" cabinets
- 1 X IM155-6PN HF including server module
- 2 X DI 8X24VDC/0.5A HF
- 2 X DQ 8X24VDC/0.5A HF
- 1 X Bus adapter 2X RJ45
- 4 X BU type A0, push-in, 2 infeed terminal separated (digital/analog, max. 24VDC/10A)
- 1 X Color-coded labels 16 process terminals, gray/red, CC01, 10 units
- 1 X 1000 Color-coded labels, light gray, 10 sheets DIN A4, perforated, paper
- 1 X Color-coded labels, 16 process terminals, gray/blue, CC02, 10 units

6ES5710-8MA11
 6ES7155-6AU00-0CNO
 6ES7131-6BF00-0CA0
 6ES7132-6BF00-0CA0
 6ES7193-6AR00-0AA0
 6ES7193-6BP00-0DA0
 6ES7193-6CP01-2MA0
 6ES7193-6LA10-0AA0
 6ES7193-6CP02-2MA0

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ **Distributed I/Os**
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

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

System requirements:	64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	STEP 7 V5.5 or V13, V14 required
Order number:	6ES7155-6AU00-0AB0

SIMATIC ET 200SP



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



Bus adapter



2 X DI 8x24VDC/
0.5A HF

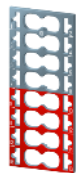


2 X DQ 8x24VDC/
0.5A HF

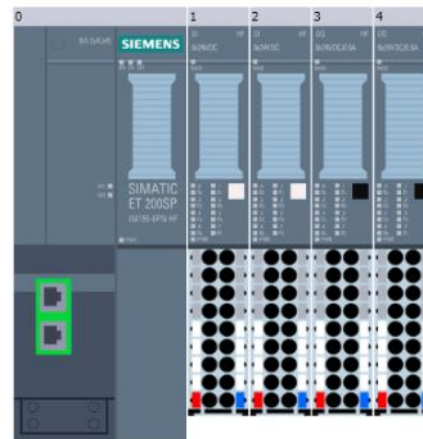


4 X Base Units

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ **Distributed I/Os**
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes



Color-coded labels
Labeling strips



Recommended accessories:

6XV1870-3RH60

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD
RJ45/RJ45, CROSSED TP CABLE 4X2,
PREASSEMBLED WITH 2 RJ45 CONNECTORS,
LENGTH 6 M

6GK1950-0BB00

Trainer Package: FASTCONNECT connection technology

SIMATIC ET 200SP with AS-i Master communication module

- 1 X Standard mounting rail. 35mm, length 483 mm, for 19" cabinets
- 1 X IM155-6PN HF including server module
- 2 X DI 8x24VDC/0.5A HF
- 2 X DQ 8x24VDC/0.5A HF
- 1 X Bus adapter 2xRJ45
- 4 X BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog max 24VDC/10A)
- 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
- 6ES7155-6AU00-0CNO
- 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

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ **Distributed I/Os**
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

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

System requirements:	64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	STEP 7 V13, V14 required
Order number:	6ES7155-6AU00-0AB3

SIMATIC ET 200SP with AS-i Master communication module



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



Bus adapter



2 X DI 8x24VDC/
0.5A HF



2 X DQ 8x24VDC/
0.5A HF



4 X Base Units



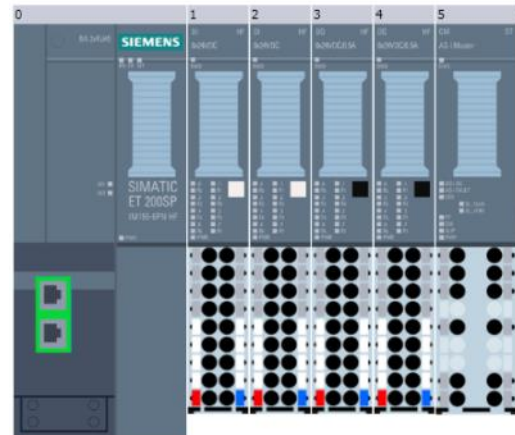
Color-coded labels
Labeling strips



1 X CM AS-i MASTER



1 X Base Units



Recommended accessories:

6XV1870-3RH60

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD
RJ45/RJ45, CROSSED TP CABLE 4X2,
PREASSEMBLED WITH 2 RJ45 CONNECTORS,
LENGTH 6 M

6GK1950-0BB00

Trainer Package: FASTCONNECT connection technology

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ **Distributed I/Os**
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

SIMATIC ET 200SP with Energy Meter input module

- 1 X Standard mounting rail 35 mm, length: 483 mm, for 19" cabinets
- 1 X IM155-6PN HF including server module
- 2 X DI 8x24VDC/0.5A HF
- 2 X DQ 8x24VDC/0.5HF
- 1 X Bus adapter 2xRJ45
- 4 X BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog, max. 24VDC/10A)
- 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
- 6ES7155-6AU00-0CNO
- 6ES7131-6BF00-0CA0
- 6ES7132-6BF00-0CA0
- 6ES7193-6AR00-0AA0
- 6ES7193-6BP00-0DA0
- 6ES7193-6CP01-2MA0
- 6ES7193-6LA10-0AA0
- 6ES7193-6CP02-2MA0
- 6ES7134-6PA00-0BD0
- 6ES7193-6BP00-0BD0
- 6ES7193-6SC00-1AM0

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ **Distributed I/Os**
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

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

System requirements:	64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	STEP 7 V13, V14 required
Order number:	6ES7155-6AU00-0AB1

SIMATIC ET 200SP with Energy Meter input module



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



Bus adapter



2 X DI 8x24VDC/
0.5A HF



2 X DQ 8x24VDC/
0.5A HF



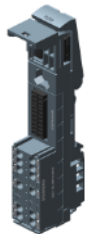
4 X Base Units



Color-coded labels
Labeling strips



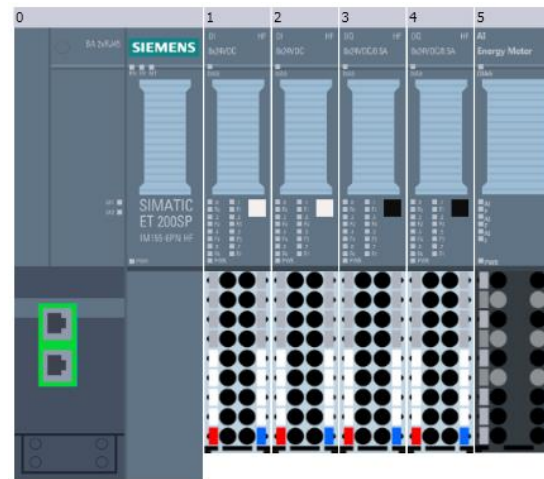
1 X Energy
Meter



1 X Base Units



1 X shielding
terminals



Recommended accessories:

6XV1870-3RH60

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD
RJ45/RJ45, CROSSED TP CABLE 4X2,
PREASSEMBLED WITH 2 RJ45 CONNECTORS,
LENGTH 6 M

6GK1950-0BB00

Trainer Package: FASTCONNECT connection technology

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ **Distributed I/Os**
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

SIMATIC ET 200SP with IO-Link communication module

- 1 X Standard mounting rail 35 mm, length: 483 mm, for 19" cabinets
- 1 X IM155-6PN HF including server module
- 2 X DI 8x24VDC/0.5A HF
- 2 X DQ 8x24VDC/0.5HF
- 1 X Bus adapter 2xRJ45
- 4 X BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog, max. 24VDC/10A)
- 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.24VDC/10A)
- 1 X CM 4xIO-Link ST
- 1 X Color-coded labels 16 process terminals, gray/blue, CC04, 10 units

- 6ES5710-8MA11
- 6ES7155-6AU00-0CN0
- 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
- 6ES7 193-6CP04-2MA0

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ **Distributed I/Os**
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

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: 64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

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

Technical note: STEP 7 V13, V14 required

Order number: 6ES7155-6AU00-0AB2



Core product
for vocational
World Cup
Industrial
Control



SIMATIC ET 200SP with IO-Link communication module



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



Bus adapter



2 X DI 8x24VDC/
0.5A HF



2 X DQ 8x24VDC/
0.5A HF



4 X Base Units



Color-coded labels
Labeling strips



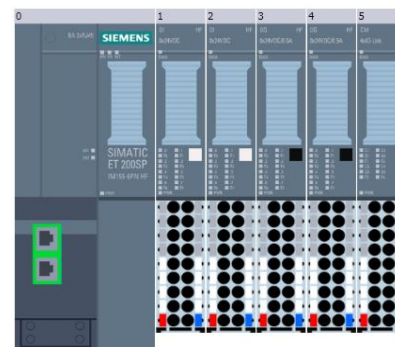
- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ **Distributed I/Os**
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes



1 X CM 4xIO-Link ST



1 X Base Units



Recommended accessories:

6XV1870-3RH60

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD
RJ45/RJ45, CROSSED TP CABLE 4X2,
PREASSEMBLED WITH 2 RJ45 CONNECTORS,
LENGTH 6 M

6GK1950-0BB00

Trainer Package: FASTCONNECT connection technology



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

SIMATIC ET 200SP – Analog modules expansion

SIMATIC ET 200SP **Analog modules** 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. 24VDC/10A)
- 1 X Shielding terminals, 5 units
- 1 X Color-coded labels 16 process terminals, gray/red/blue, CC03, 10 units

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

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ **Distributed I/Os**
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes



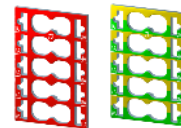
2 x AI 2xU/I
2-/4-wire HS



1 x AQ 2xU/I HS



5X Shielding terminals



Color-coded labels



3 x Base
Units



System requirements: 64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

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

Technical note: STEP 7 V13, V14 required

Order number: 6ES7155-6AU00-0AB6

Core product
for vocational
World Cup
Industrial
Control



SIMATIC ET 200SP – Safety modules expansion

SIMATIC ET 200SP **Safety modules** expansion consisting of:

- 1 X ELECTRONIC MODULE F-DI 8x24VDC HF
- 1 X ELECTRONIC MODULE F-DQ 4x24VDC/2A PM HF
- 1 X ELECTRONIC MODULE F-RQ DC24V/AC24..230V/5A
- 2 X BASEUNIT BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog, max. 24VDC/10A)
- 1 X BASEUNIT BU type F0
- 1 X SIMATIC ET 200SP, 1000 labeling strips, yellow
- 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

- 6ES7136-6BA00-0CA0
- 6ES7136-6DB00-0CA0
- 6ES7136-6RA00-0BF0
- 6ES7193-6BP00-0DA0
- 6ES7193-6BP20-0BF0
- 6ES7193-6LA10-0AG0
- 6ES7193-6CP01-2MA0
- 6ES7193-6CP02-2MA0

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ **Distributed I/Os**
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes



1x F-DI
8x24VDC HF



1x F-DQ
4x24VDC/2A PM HF



1x F-RQ
DC24V/AC24..230V/5A



Labeling strips



3 x Base Units

System requirements:

64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

Sales note:

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

Technical note:

STEP 7 V13, V14 required

Order number:

6ES7136-6BA00-0AB1

- **Overview**
 - Overview STEP 7 and HMI
 - WinCC Advanced V14/WinCC flexible 2008 SP3
 - WinCC Advanced V14/WinCC flexible 2008 SP3 Software for students
 - SIMATIC HMI TP700/TP1500 COMFORT PANEL
 - WinCC Professional/Web Navigator Diagnostics V14 SP1
 - SIMATIC WinCC V7.3
 - SIMATIC WinCC/Web Navigator Diagnostics V7.3
 - SIMATIC WinCC/Web Navigator Diagnostics V7.3 ASIA

Trainer Packages

Overview structure STEP 7 and SIMATIC HMI

SIMATIC Software

- STEP 7 as the Basis
- Engineering tools for STEP 7**
- S7-PLCSIM Simulation of S7-Hardware
- S7-SCL similar to Pascal
- S7-GRAPH for sequence control with DIN1131-3

SIMATIC HMI software – Human Machine Interface

WinCC with

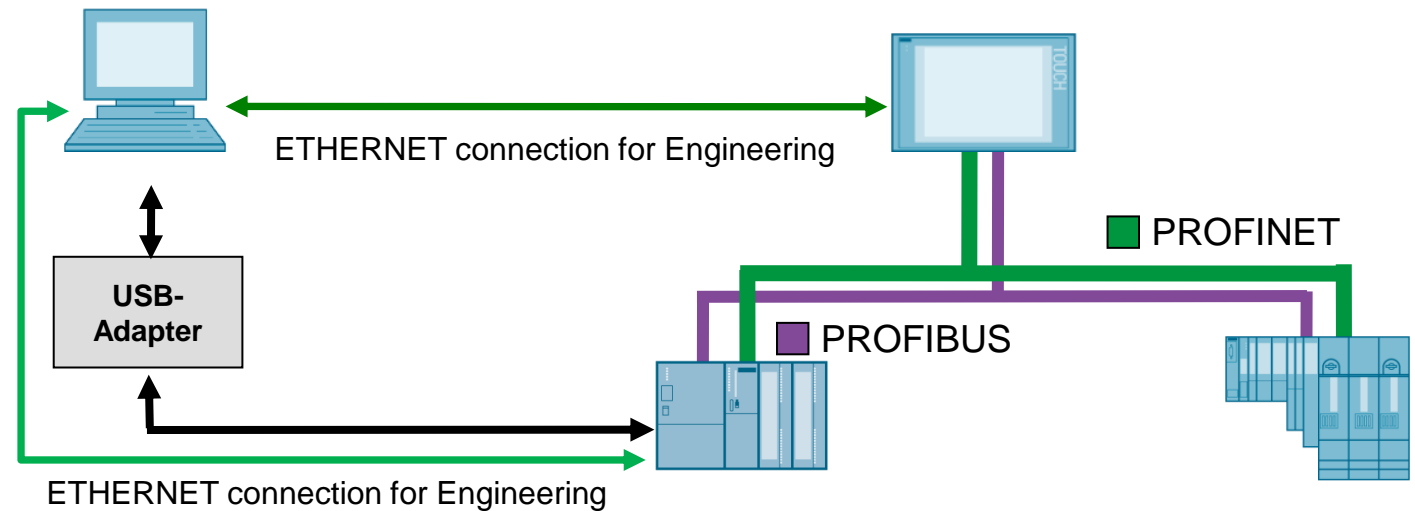
- Advanced level
- Smart Option for Panel / PC
- Smart Access
- OPC-Interface

Software Engineering Tool for STEP 7

- SIMATIC CFC
- PID Control with SIMATIC
- SIMATIC NET Software

Touch- or Operator-Panel

TP700 / TP1500
PROFIBUS and PROFINET connection



USB-Adapter

6GK1571-0BA00-0AA0
S7 RS485, PC USB
including 5 m cable

S7- Controller

Packages with PROFINET
and PROFIBUS

ET 200SP Open Controller.

ET 200SP ...
Packages with PROFINET
For PROFIBUS only interface
has to be ordered separately

SIMATIC WinCC Advanced V14 / WinCC flexible 2008 SP3 6er Classroom License

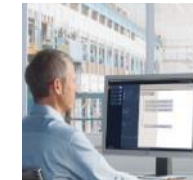
6 x Combo-license for freely interchangeable usage of Engineering SW

- of: SIMATIC WinCC Advanced V14 *
- or: SIMATIC WinCC flexible 2008 SP3

6 x Option and Runtime software, [see slide 81](#)

Additionally included in the package 6AV2102-0AA04-0AS5:

1 x 20 SIMATIC WinCC Advanced V14 * / WinCC flexible 2008 SP3 for Students, [see slide 82](#)
Software is **limited to 365 days through authorization**



Totally Integrated Automation
PORTAL

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

Students

SW functional identical to the industrial version

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



* V14: also 64 BIT Windows 8.1 Professional, Enterprise

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements:	64 BIT: Windows 7 Professional, Enterprise (not N), Ultimate SP1 32 BIT: Windows 7 Professional, Enterprise (not N), Ultimate SP1		
Sales note:	Schools, colleges and universities, for in-house vocational training departments		
Technical note:	Authorization on USB stick (1 stick)	Upgrade (to 2008 SP3)	from 2008, V11, V12, V13 to Advanced V14
Order number:	6AV2102-0AA04-0AS5	6AV6613-1XA01-3CS0	6AV2102-4AA04-0AS5

SIMATIC WinCC Advanced V14 / WinCC flexible 2008 SP3 Option and Runtime Software

SIEMENS

WinCC Advanced V14

WinCC RT Advanced (128 Power Tags)

WinCC Recipes for RT Advanced

WinCC Logging for RT Advanced

WinCC Sm@rtServer for RT Advanced

WinCC Sm@rtServer for SIMATIC Panel

WinCC flexible 2008 SP3

WinCC flexible 2008 SP 3 Runtime (128 Power Tags)

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

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ **Operator control & monitoring**
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

SIMATIC HMI WinCC Advanced V14/WinCC flexible 2008 SP3 Single License for Students – limited to 365 days

SIEMENS

20 x Combo-license for interchangeable usage the Engineering SW

of : SIMATIC WinCC Advanced V14*
or: SIMATIC WinCC flexible 2008 SP3

Licences limited to 365 days through authorization

Runtime Licences:

20 x SIMATIC WinCC RT Advanced V14 *-128 PowerTags
20 x SIMATIC WinCC flexible 2008 Runtime SP3 - 128 PowerTags

Software is limited to 365 days through authorization

Package with:

System requirements: 64 BIT: WINDOWS 7 Professional, Enterprise (not N), Ultimate SP1
32 BIT: WINDOWS 7 Professional, Enterprise (not N), Ultimate SP1

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

Technical note: Authorization on USB-Stick

Order number: 6AV2102-0AA04-0AS7

Students



Totally
Integrated
Automation
PORTAL

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

Students

SW functional identical to
the industrial version

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

* V14: also 64 BIT Windows 8.1
Professional, Enterprise

SIMATIC HMI TP700 / TP1500 COMFORT, COMFORT PANEL with PROFINET and MPI/PROFIBUS DP INTERFACE

SIEMENS

alternative:

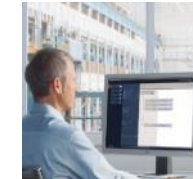
1 x 7" SIMATIC HMI TP700 COMFORT, Touch Panel with PROFINET and MPI/PROFIBUS DP INTERFACE [6AV2124-0GC01-0AX0](#)

(Panel with integrated switch for 2 x RJ 45 ports)

alternative:

1 x 15" SIMATIC HMI TP1500 COMFORT, Touch Panel with PROFINET and MPI/PROFIBUS DP INTERFACE [6AV2124-0QC02-0AX0](#)

(Panel with integrated switch for 2 x RJ 45 ports)



Totally
Integrated
Automation
PORTAL

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

SW functional identical to
the industrial version

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



Additionally the package contains

- 1 x Engineering, Option and Runtime SW and license SIMATIC WinCC Advanced V14, **see slide 80**
- 1 x SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, [6XV1870-3RH60](#)
- CAT 6, CROSSED TP CABLE 4X2, PREASSEMBLED W. 2 RJ45 CONNECTORS, LENGTH 6 M

TP 700 / 1500 can only be configured with WinCC Comfort, Advanced, Prof. V11 SP2 , V12, V13, V14

System requirements: 64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1. Windows 8.1 Professional, Enterprise
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

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

Technical note: Authorization on USB stick (1 stick)

Order number: 6AV2133-4AF00-0AA0 (with TP700) 6AV2133-4BF00-0AA0 (with TP1500)

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

SIMATIC WinCC Professional/Web Navigator Diagnostics V14 SP1 Classroom License

SIEMENS

In preparation



Totally
Integrated
Automation
PORTAL

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ **Operator control & monitoring**
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements: 64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1. Windows 8.1 Professional, Enterprise
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

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

Technical note: Authorization on USB stick

Order number: NN

SIMATIC WinCC V7.3 SE Update 1 Classroom License

SIEMENS

WinCC Trainer Package V7.3 SE Update 1

6 x WinCC V7.3 SE Update 1 RC 2048 variables

Upgrade WinCC and WinCC/Web Navigator V7.0 SP3

6 x WinCC RC Upgrade, V6.0 → V7.0 SP3, V6.2 → V7.0 SP3, RC 2048 variables

6 x WinCC/WebNavigator Upgrade, V6.0 → V7.0 SP3, V6.2 → V7.0 SP3

Upgrade WinCC and WinCC/Web Navigator V7.3 SE Update 1

6 x WinCC RC Upgrade, V6.2 → V7.3, V7.0 → V7.3, RC 2048 variables

6 x WinCC/WebNavigator Upgrade, V6.2 → V7.3, V7.0 → V7.3



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements:	64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Authorization on USB stick
Order number:	6AV6381-1BP07-3AX5 Upgrade: 6AV6381-1BP07-3AX3 from V6.2 /7.0 to V7.3 6AV6381-1BP07-0AX3 from V6.0/6.2 to V7.0

SIMATIC WinCC/Web Navigator V7.3 SE Update 1 – Diagnostics Classroom License

SIEMENS

WinCC/Web Navigator V7.3 SE Update 1

- 6 x WinCC V7.3 SE Update 1 RC 2048 variables
- 6 x WinCC/Web Navigator Diagnostics Server V7.3 SE Update 1
- 6 x WinCC/Web Navigator Diagnostics Client V7.3 SE Update 1

Upgrade WinCC und WinCC/Web Navigator V7.0 SP3

- 6 x WinCC RC Upgrade, V6.0 → V7.0 SP3, V6.2 → V7.0 SP3, RC 2048 variables
- 6 x WinCC/WebNavigator Upgrade, V6.0 → V7.0 SP3, V6.2 → V7.0 SP3

Upgrade WinCC und WinCC/Web Navigator V7.3 SE Update 1

- 6 x WinCC RC Upgrade, V6.2 → V7.3, V7.0 → V7.3, RC 2048 variables
- 6 x WinCC/WebNavigator Upgrade, V6.2 → V7.3, V7.0 → V7.3



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements:	64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Authorization on USB stick
Order number:	6AV6371-1DH07-3AX5 Upgrade: 6AV6381-1BP07-3AX3 from V6.2/7.0 to V7.3 6AV6381-1BP07-0AX3 from V6.0/6.2 to V7.0

SIMATIC WinCC/Web Navigator V7.3 SE Update 1 ASIA – Diagnostics Classroom License

SIEMENS

WinCC/Web Navigator V7.3 SE Update 1 ASIA – Diagnostics

- 6 x WinCC V7.3 SE Update 1 RC 2048 variables
- 6 x WinCC/Web Navigator Diagnostics Server V7.3 SE Update 1
- 6 x WinCC/Web Navigator Diagnostics Client V7.3 SE Update 1



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ **Operator control & monitoring**
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

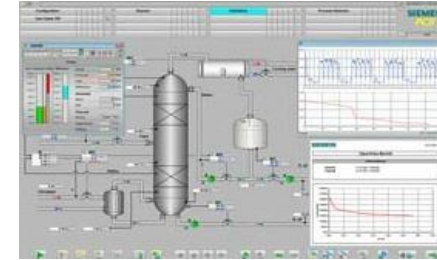
System requirements:	64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Authorization on USB stick
Order number:	6AV6371-1DH07-3AV5

- **Overview**
 - Process control system SIMATIC PCS 7 – 3er SW License/Upgrade
 - Process control system SIMATIC PCS 7 – 6er Software License
 - Process control system SIMATIC PCS 7 AS RTX Box – Hardware

Process control system SIMATIC PCS 7 3er License/Upgrade

SIEMENS

- 1 x DVD: PCS 7 Software V8.2
- 1 x Paper: Certificate of License (A5E00276662)
- 1 x Stick: License Key USB Stick with 3 * FLOATING LICENSES



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ **Process Automation**
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements: Windows 7 SP1 Ultimate/Enterprise (32- or 64-bit) Windows Server 2008 R2 SP1 Standard Edition (64-bit)

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

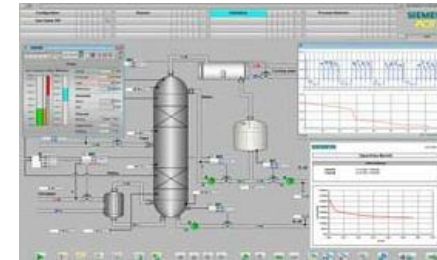
Technical note: Authorization on USB stick

Order number: 6ES7650-0XX28-0YS5 Upgrade: 6ES7650-0XX08-0YE5 from V7.1 to V8.0
6ES7650-0XX28-0YE5 from V8.0, 8.1 to V8.2

Process control system SIMATIC PCS 7 6er License

SIEMENS

Equivalent to 2 x **SIMATIC PCS 7 – 3er license**, [see slide 89](#)



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ **Process Automation**
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements:	Windows 7 SP1 Ultimate/Enterprise (32 or 64 bit) Windows Server 2008 R2 SP1 Standard Edition (64-bit)
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Authorization on USB stick
Order number:	6ES7650-0XX28-2YS5

Process control system SIMATIC PCS 7 AS RTX Box Package

SIEMENS

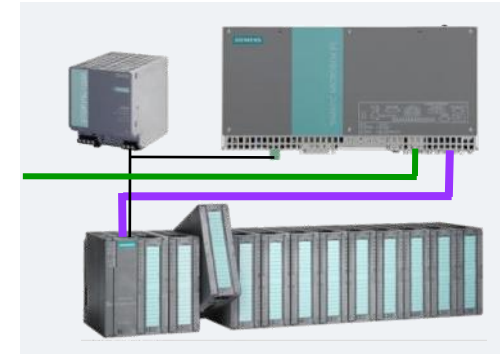
Main components in the package:

- 1 x SIMATIC PCS 7 AS RTX Box 427C
- 1 x ET 200M – Station with 7DE(144), 3DA(64), 1AE(8), 1AA(8) Assemblies
- 1 x SITOP power supply 20A with Front Connector and Communication Cable

Details: [see slide 92, 93](#)

Please Note:

- PCS 7 Licenses additional required, [see slide 89, 90](#)
- Trainer Package adjusted on PCS 7 training curriculums



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ **Process Automation**
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Note: The PCS7 AS RTX Box Trainer Package consist of two sub packages. They have and can be ordered only together. The split into two orders numbers is caused by logistic reasons.

System requirements:	Windows 7 SP1 Ultimate/Enterprise (32 or 64 bit) Windows Server 2008 R2 SP1 Standard Edition (64 Bit)
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	See above
Order number:	6ES7654-0UE23-0XS1 + 6ES7153-2BA10-4AB1

SIMATIC PCS 7 AS RTX Box (PROFIBUS) 6ES7654-0UE23-0XS1 only in combination with 200M 6ES7153-2BA10-4AB1 for RTX (see next page)

SIEMENS

1 x SIMATIC PCS 7 AS RTX - PROFIBUS AUTOMATION SYSTEM BASED ON IPC427D CORE I7-3517UE, 2X1,7GHZ; 4GB DDR3 RAM; SSD 80 GB MLC INTERNAL; 2 X GBIT LAN (RJ45) ONBOARD; (ONBOARD); CP5622 ONBOARD 4 X USB V3.0 (HIGH CURRENT); 24V DC POWER SUPPLY; W/O OPT. DEVICE, FDD, MOUSE, KEYBOARD AND MONITOR; WINDOWS 7 ULTIMATE, MUI (EN/GE/FR/IT/SP/CH), 32BIT; WINAC RTX 2010 SOFTWARE CONTROLLER; WINAC RTX 2010, PCS 7 RTX AND AS PO 100 LIZENZ INTEGRATED; PREINSTALLED FOR PCS 7 OPERATING	6ES765-40UE23-0XX1	▶ Industrial Controls
1 x SIMATIC DP, HART ANALOG INPUT SM 331, 8 AI, 0/4 - 20MA HART, FOR ET200M WITH IM153-2, 1 X 20-POLE, FEATURES: FW UPDATE, HART SECONDARY VARIABLES, REDUNDANCY, LOCAL DIAGNOSTIC BUFFER WITH TIMESTAMP	6ES7331-7TF01-0AB0	▶ Engineering Software
2 x SIMATIC S7/PCS7, SM 322 DIGITAL OUTPUT MODULE, 16 DO, DC 24 V / 0,5A, CAPABLE OF DIAGNOSTICS, WIRE BREAK DETECTION TO 0 AND 1 SIGNAL, 1 X 40-PIN, INTERFACE MODULE IM 153-X HF NECESSARY	6ES7322-8BH10-0AB0	▶ SIMIT Simulation
1 x SIMATIC S7-300, FRONT CONNECTOR FOR SIGNAL MODULES WITH SCREW CONTACTS, 20-PIN	6ES7392-1AJ00-0AA0	▶ Basic Automation
2 x SIMATIC S7-300,FRONT CONNECTOR WITH SCREW CONTACTS, 40-PIN	6ES7392-1AM00-0AA0	▶ Controller/PLC
1 x SIMATIC, STAND.SECTIONAL RAIL WIDTH 35MM, LENGTH 483MM FOR 19 IN.CABINETS	6ES5710-8MA11	▶ Distributed I/Os
1 x SIMATIC NET, CONN. CABLE 830-2 F. PROFIBUS, PREASSEMBLED CABLE WITH 2 SUB-D	6XV18302AH50	▶ Operator control & monitoring
1 x SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6A, CROSSED TP CABLE 4X2	6XV18703RH60	▶ Process Automation
1 x SITOP PSU8200 20A STABILIZED POWER SUPPLY INPUT: 120-230 V AC 110-220 V DC OUTPUT: 24 V/20 A DC	6EP13363BA10	▶ Industrial Communication

Note: The PCS7 AS RTX Box Package has to be ordered in combination with ET 200M for RTX. Oder number/Details [see slide 93](#).

ET 200M 6ES7153-2BA10-4AB1 for RTX Box (PROFIBUS) only in combination with PCS 7 AS RTX Box 6ES7654-0UE23-0XS1 (see previous page)

SIEMENS

1 x SIMATIC DP, ET 200M INTERFACE IM 153-2 HIGH FEATURE FOR MAX. 12 S7-300 MODULES, WITH REDUNDANCY, TIME STAMPING FIT FOR ISOCHRONOUS MODE NEW FEATURES: 12 MODULES / STATION SLAVE INITIATIVE FOR SWITCHES AND DRIVE ES EXTENDED DATA FOR HART SECONDARY VARIABLES OPERATION WITH 64PT MODULES EXTENDED TIMESTAMPS WITH 32 SIGNALS / SLOT +++ SEE COMPATIBILITY NOTES IN THE MANUAL +++	6ES7153-2BA10-0XB0	▶ Industrial Controls
2 x SIMATIC S7-300, DIGITAL OUTPUT SM 322, OPTICALLY ISOLATED, 32DO, 24V DC, 0.5A, 1 X 40 PIN	6ES7322-1BL00-0AA0	▶ Engineering Software
4 x SIMATIC S7-300, DIGITAL INPUT SM 321, GALVANICALLY ISOLATED, 16 DI, DC 24V, 1 X 20 PIN, PROCESS INTERRUPT, DIAGNOSTICS, FIT FOR ISOCHRONOUS MODE	6ES7321-7BH01-0AB0	▶ SIMIT Simulation
1 x SIMATIC S7-300, DIGITAL OUTPUT SM 322, OPTICALLY ISOLATED, 32DO, 24V DC, 0.5A, 1 X 40 PIN	6ES7322-1BL00-0AA0	▶ Basic Automation
1 x SIMATIC S7-300, ANALOG INPUT SM 331, GALVANICALLY ISOLATED, 8 AI, 14 BIT, 0.052MS/CHANNEL, CURRENT,	6ES7331-7HF01-0AB0	▶ Controller/PLC
1 x SIMATIC S7-300, ANALOG OUTPUT SM 332, OPTICALLY ISOLATED, 8 AO, U/I; DIAGNOSTICS	6ES7332-5HF00-0AB0	▶ Distributed I/Os
5 x SIMATIC S7-300, FRONT CONNECTOR FOR SIGNAL MODULES WITH SCREW CONTACTS, 20-PIN	6ES7392-1AJ00-0AA0	▶ Operator control & monitoring
4 x SIMATIC S7-300, FRONT CONNECTOR WITH SCREW CONTACTS, 40-PIN	6ES7392-1AM00-0AA0	▶ Process Automation
1 x SIMATIC DP, RAIL FOR ET 200M 620 MM LONG FOR BUS MODULES FUNCTION: INSERT/REMOVE	6ES7195-1GG30-0XA0	▶ Industrial Communication
6 x SIMATIC DP, BUS UNIT FOR ET200M F. THE INTEGR. OF TWO 40 MM WIDE I/O SUBMODULES FOR INSERT/REMOVE	6ES7195-7HB00-0XA0	▶ Sensor Technology
1 x SIMATIC DP, BUS UNIT FOR ET200M F. THE INTEGR. OF 1 PS A.1 IM153 FUNCTION: INSERT/REMOVE-MODULE WHILE OPERATING MODE RUN INCL. COVER FOR BUS UNIT	6ES7195-7HA00-0XA0	▶ Drive Technology
		▶ CNC Software
		▶ PLM Software
		▶ Important Notes

Note: The PCS7 AS RTX Box Package has to be ordered in combination with ET 200M for RTX. Order number/Details [see slide 92](#).

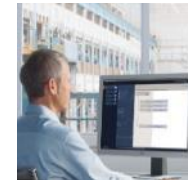
- **Overview**
 - SINEMA Network Monitoring Software
 - CP343-1 Advanced
 - Switch X208
 - Security Switch
 - IWLAN
 - FASTCONNECT Accessories Kit
 - Development Kit

SINEMA Network Monitoring Software V13

6 X SINEMA SERVER BASIC-50 V13

6GK1781-1BA13-0AA0

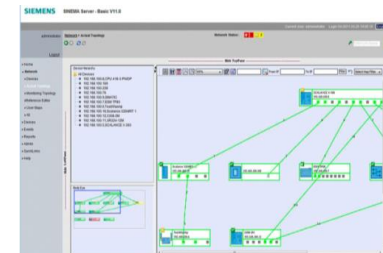
SINEMA SERVER 50 V13 DELIVERED ON DVD MONITORING FOR INDUSTRIAL NETWORKS INCL PROFINET AUTOMATIC INVENTORY DETERMINATION OF TOPOLOGY CONTINUOUS DIAGNOSIS REPORTING, STATISTICS, ALARMS ADAPTABLE DEVICE PROFILES CAPABLE OF BEEING INTEGR IN HMI WEBSERVER-WEBCLIENT ARCHITECT. LICENSE TYPE SINGLE MONITORABLE IP UNITS 50 WINDOWS 7 SP1 64BIT



Totally Integrated Automation
PORTAL

Check HW Compatibility for TIA Portal

SW functional identical to the industrial version



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ **Industrial Communication**
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements:	64 BIT: WINDOWS 7 Professional, Ultimate SP1
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Authorization on USB-Stick
Order number:	6GK1950-0BB06

SIMATIC CP343-1 Advanced

1 x SIMATIC CP 343-1 Advanced

6GK7343-1GX31-0XE0

SIMATIC NET CP 343-1 ADVANCED; FOR CONNECTING SIMATIC S7-300 CPU TO IND. ETHERNET; PROFINET IO CONTROLLER AND/OR IO-DEVICE; RT AND IRT MRP, PROFINET CBA; TCP/IP; ISO,UDP,S7-COM,S5-KOMP. COM., (SEND/RECEIVE) W. FETCH/WRITE WITH AND WITHOUT RFC 1006, MULTICAST DIAGNOSIS EXTENSION, SNMP, DHCP, FTP CLIENT/SERVER, E-MAIL, GIGABIT-SS1X RJ45 (10/100/1000) PROFINET-SS 2X RJ45(10/100MBIT) PROFINET CBA; SECURITY (FIREWALL/VPN); PROFIENERGY



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ **Industrial Communication**
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Recommended accessory:

6XV1870-3RH60

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CROSSED TP CABLE 4X2, PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 6 M

6GK1950-0BB00

Trainer Package:
FASTCONNECT Accessories Kit

System requirements: 64 BIT: WINDOWS 7 Professional, Ultimate SP1
32 BIT: WINDOWS 7 Professional, Ultimate SP1

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

Technical note: None available

Order number: 6GK1950-0AA07

Switch Technologies – Scalance X208 / SIMATIC NET

1 x SCALANCE X208

6GK5208-0BA10-2AA3

SIMATIC NET, SCALANCE X208, MANAGED IE SWITCH, 8 X 10/100MBIT/S RJ45 PORTS, LED DIAGNOSTICS, ERROR SIGNAL CONTACT WITH SET BUTTON, REDUNDANT POWER SUPPLY, PROFINET-IO DEVICE, NETWORK MANAGEMENT, INTEGRATED REDUNDANCY MANAGER, INCL. ELECTRONIC MANUAL ON CD

1 x SIMATIC NET, C-PLUG

6GK1900-0AB00

SIMATIC NET, C- PLUG REPLACEABLE , FOR SIMPLE DEVICE EXCHANGE IN CASE OF FAILURE, FOR STORAGE OF CONFIGURATION OR USER DATA, APPLICATION IN SIMATIC NET PRODUCTS WITH C-PLUG SLOT



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ **Industrial Communication**
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Recommended accessory:

6XV1870-3RH60

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD
RJ45/RJ45, CROSSED TP CABLE 4X2, PREASSEMBLED
WITH 2 RJ45 CONNECTORS, LENGTH 6 M

6GK1950-0BB00

Trainer Package:
FASTCONNECT Accessories Kit

System requirements: 64 BIT: WINDOWS 7 Professional, Ultimate SP1
32 BIT: WINDOWS 7 Professional, Ultimate SP1

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

Technical note: None available

Order number: 6GK1950-0BB02

Core product
for vocational
World Cup
Industrial
Control



SIMATIC NET Industrial Security Switch Technologies – SCALANCE S623

2 x SIMATIC NET SCALANCE S 623

6GK5623-0BA10-2AA3

SCALANCE S 623 MODULE FOR PROTECTION OF UNITS AND NETWORKS IN AUTOMATION TECHNOLOGY AND FOR PROTECTION OF INDUSTRIAL COMMUNICATION VIA VPN AND FIREWALL; ADDITIONAL DMZ-PORT FOR CONNECTING AN ADDITIONAL NETWORK ADDITIONAL FUNCTIONS: ADDRESS CONVERSION

1 x SOFTNET SECURITY CLIENT V5

6GK1704-1VW05-0AA0

SIMATIC NET INDUSTR. ETHERNET SOFTNET SECURITY CLIENT V5 SW FOR CONFIGURING SAFE IP BASED VPN-CONNECTIONS FROM PC/PG TO NETWORK SEGMENTS, WHICH ARE FUSED BY SCALANCE S, SCALANCE M, SINGLE LICENSE F.1 INSTALLATION R-SW, SW + ELECTR. MAN ON CD SW 2-LANGUAGES (G,E); MAN 5-LANGUAGES (G, E, F, I, S) FOR WINDOWS 7 ULTIMATE, PROFESSIONAL (32/64 BIT)

2 x SIMATIC NET, C-PLUG

6GK1900-0AB00

SIMATIC NET, C- PLUG REPLACEABLE , FOR SIMPLE DEVICE EXCHANGE IN CASE OF FAILURE, FOR STORAGE OF CONFIGURATION OR USER DATA

Recommended accessory:

6XV1870-3RH60

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CROSSED TP CABLE 4X2, PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 6 M

6GK1950-0BB00

Trainer Package: FASTCONNECT Accessories Kit



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements:	64 BIT: WINDOWS 7 Professional, Ultimate SP1 32 BIT: WINDOWS 7 Professional, Ultimate SP1
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	None available
Order number:	6GK1950-0BB03

SIMATIC NET – IWLAN

1 x **6GK5774-1FX00-0AA0** (ROW version) or **6GK5774-1FX00-0AB0** (USA version)
 IWLAN ACCESS POINT, SCALANCE W774-1 RJ45, 1 RADIO, 2 R-SMA ANT. CONNECT., IFEATURES ONLY WITHT KEY-PLUG, IEEE 802.11A/B/G/H/N, 2.4/5GHZ, GROSS DATA RATE 300 MBIT/S, 2 X RJ45 (MAX. 100 MBIT/S), POE INTEGRATED 2-PORT-SWITCH, 2 x **6GK5734-1FX00-0AA0** (ROW version) or **6GK5734-1FX00-0AB0** (USA version)

IWLAN CLIENT, SCALANCE W734-1 RJ45, 1 RADIO, 2 R-SMA ANT. CONNECT., IFEATURES ONLY WITH KEY-PLUG, IEEE 802.11A/B/G/H/N, 2.4/5GHZ, GROSS DATA RATE 300 MBIT/S, 2 X RJ45 (MAX. 100 MBIT/S), POE INTEGRATED 2-PORT-SWITCH, 2X24V DC, IP20

6 x **6GK5795-4MA00-0AA3**

IWLAN ANTENNA ANT 795-4MA WITH OMNIDIRECTIONAL CHARACTERISTIC, RADIAL ROTAT., WITH ADDITIONAL JOINT, ANTENNA GAIN: 3/5DBI, INCL. RSMA CONNECTOR, IP30 (-20-+60DGR C), 2.4/5 GHZ; DIRECT MOUNTING TO SCALANCE W WITH RSMA CONNECTION TECHNOLOGY, SCOPE OF DELIVERY: 1X ANT795-4MA COMPACT INSTRUCTION ON PAPER GERMAN/ENGLISH

1 x **6GK5907-8PA00**

KEY-PLUG W780, REPLACEABLE MEDIUM FOR ACTIVATING IFEATURES FOR SCALANCE W IN ACCESS POINT AND CLIENT MODE AND FOR EASY REPLACEMENT OF DEVICE IN CASE OF FAILURE, AND FOR STORAGE OF CONFIGURATION DATA

2 x **6GK5907-4PA00**

KEY-PLUG W740, REPLACEABLE MEDIUM FOR ACTIVATING IFEATURES FOR SCALANCE W IN CLIENT MODE.....



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ **Industrial Communication**
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Recommended accessories:

6GK1950-0BB0
 Trainer Package: FASTCONNECT connection technology

System requirements:	64 BIT: WINDOWS 7 Professional, Ultimate SP1 32 BIT: WINDOWS 7 Professional, Ultimate SP1	
Sales note:	Schools, colleges and universities, for in-house vocational training departments	
Technical note:	None available	
Order number:	6GK1950-0BB14 (ROW version)	6GK1950-0BB15 (USA version)

FASTCONNECT Accessories Kit

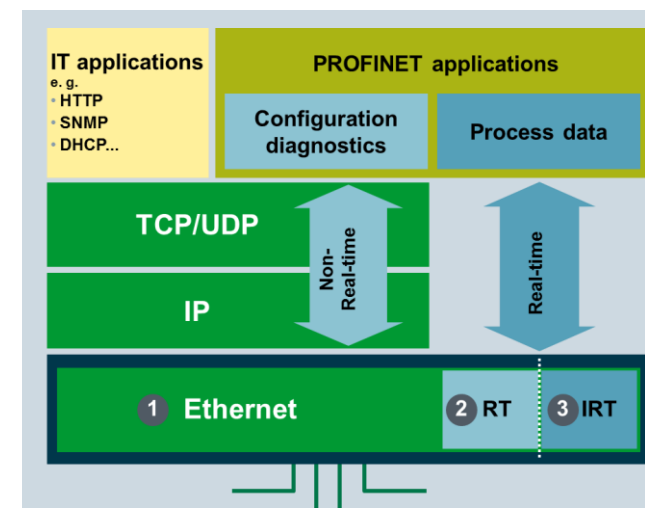
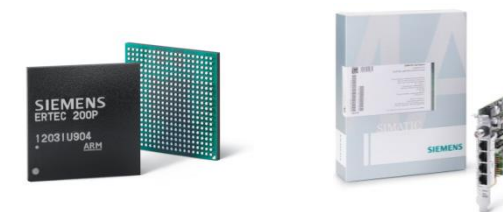
- 1 X 6GK1901-1GA00 FASTCONNECT STRIPPING TOOL
- 2 X 6GK1901-1BB10-2AB0 SIMATIC NET IE FC RJ45 PLUG 180 2X2, RJ45 PLUG CONNECTOR (10/100MBIT/S) WITH RUGGED METAL HOUSING AND FC CONNECTING METHOD FOR IE FC CABLE 2X2, 180 DGR CABLE OUTLET 1 PACK = 10 PCS
- 4 X 6GK1901-1BB20-2AA0 SIMATIC NET IE FC RJ45 PLUG 90 2X2, RJ45 PLUG CONNECTOR (10/100MBIT/S) WITH RUGGED METAL HOUSING AND FC CONNECTING METHOD FOR IE FC CABLE 2X2 90 DGR CABLE OUTLET 1 PACK = 1 PCS
- 1 X 6GK1901-0DB20-6AA8 SIMATIC NET IE FC M12 PLUG PRO M12 PLUG CONNECTOR WITH RUGGED METAL HOUSING AND FC CONNECTING METHOD, WITH AXIAL CABLE OUTLET (D CODED) 1 PACKAGE = 8 PCS FOR SCALANCE X208 PRO AND ET 200 PRO PN
- 1 X 6GK1907-0DC10-6AA3 M12 CABLE CONN. PRO - SOCKET FOR CONNECTION OF SCALANCE W-700/X208PRO FOR 24V DC VOLTAGE SUPPLY, 4-POLE, A-CODED, WITH MOUNTING INSTRUCTION, 3 PCS
- 1 X 50 M - 6XV1870-2B FLEXIBLE CABLE, GP 2X2 TP INSTALLATION CABLE WITH FLEXIBLE STRAND, PROFINET TYP B, 4WIRE
- 2 X 6XV1870-3RH60 SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6, CROSSED TP CABLE 4X2, PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 6 M

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ **Industrial Communication**
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

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

Development Kit – PROFINET & PROFISAFE

- | | | |
|---|--|--------------------|
| 1 | EK-ERTEC 200P PN IO EVALUATION KIT FOR PN IO, DEVICE BASED ON ERTEC 200P EVALUATION BOARD EB 200P, TEST-APPLICATION SW, DOCU | 6ES7195-3BE00-0YA0 |
| 1 | PROFINET DRIVER FOR CONTROLLER DEVELOPMENT PACKAGE FOR PROFINET IO CONTROLLER, ON CD, SOURCE CODE WITH EXEMPLARY IMPLEMENTATION ON WINDOWS | 6ES7195-3AA00-0YA0 |
| 1 | PROFISAFE-STARTERKIT V3.4 (FOR V1-MODE AND V2-MODE PROFISAFE-DEVICES) | 6ES7195-3BF02-0YA0 |
| 1 | SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6A, CROSSED TP CABLE 4X2, PREASSEMBLED W. 2 RJ45 CONNECTORS, LENGTH 6 M | 6XV1870-3RH60 |

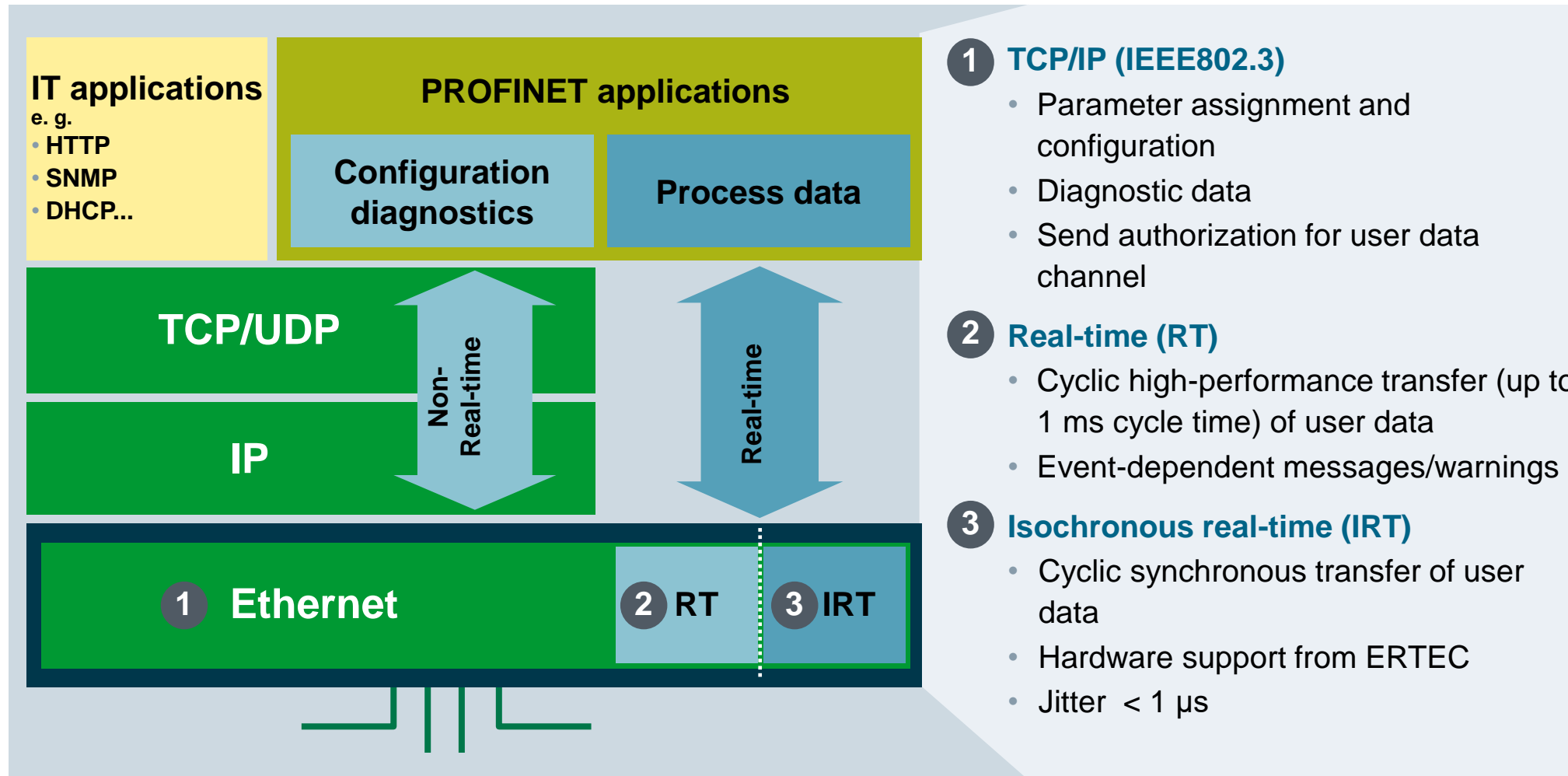


- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ **Industrial Communication**
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

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

Selection of development environment

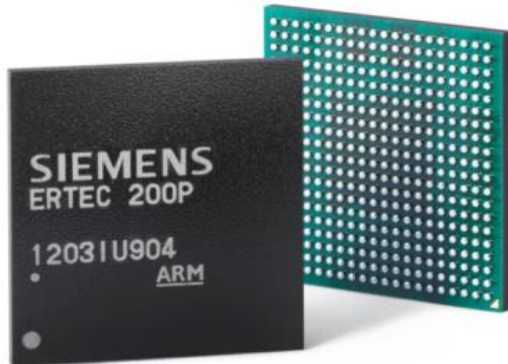
Overview of the PROFINET stack



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Development environment Evaluation Kit for ERTEC 200P

SIEMENS



ERTEC 200P

High speed with ERTEC 200P

- Support of the performance upgrade of PROFINET in accordance with specification V2.3
→ Cycle times up to **31.25 μs** can be reached (Eval Kit V4.0 allows 250 μs, FW update in work)
- **Isochronous** connection of applications to PROFINET
- **ARM 926** with **250 MHz** for demanding applications

Quick start to development with Evaluation Kit

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

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ **Industrial Communication**
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes



PROFIsafe Starter Kit

Advantages of the Development Kit

- The Development Kit supports the development of a **PROFIsafe** field device based on **PROFINET**
- The PROFIsafe Starter Kit V3.4 **complies with version 2.4** of the **PROFIsafe profile**, specified in IEC 61784-3-3.
- Meets a range of user requirements, such as **multiple instance capability** and **variable process data length during runtime**

Contents of the software

- Current PROFIsafe specification
- PROFIsafe driver software (PSD) with PROFIsafe certificate
- CRC calculation tools
- iPar server function block (software and instructions)
- Tool calling interface functionality (example and instructions)
- Sample application for DK-ERTEC 200 PN IO

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ **Industrial Communication**
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Development Kit – PROFINET & PROFISAFE

Overview of the PROFINET Driver for Controllers

SIEMENS



Overview of key features

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

Scope of supply

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 (amongst others trace

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ **Industrial Communication**
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

PROFINET Driver for controllers

- **Overview**
 - SIMATIC MV440 HR Optical Reader
 - SIMATIC RF200 RFID System PROFINET
 - SIMATIC RF300 RFID System PROFINET
 - SIWAREX Weighing systems

SIMATIC MV440 HR Optical Reader

- 1 X SIMATIC MV440 HR OPTICAL READER RESOLUTION: 1024 X 768 PIXEL; FOR 1D/2D CODES AND OCR
- 1 X TEXT-GENIUS PLUS; READING OF 1D BAR CODES AND 2D MATRIX CODES, TEXT RECOGNITION;
OCR LICENSE FOR MV440 CODE READING SYSTEMS; SINGLE LICENSE
- 1 X PAT-GENIUS FORM RECOGNITION, OBJECT RECOGNITION LICENSE FOR MV440 CODE READER UNITS
- 1 X MV440 MOUNTING PLATE READER VERY STURDY (4MM MATERIAL)
- 1 X POWER-IO-RS232 CABLE 10M FOR MV 400 UNITS LENGTH: 10M
- 1 X MINI LENS 16 MM, 1:1.4 PENTAX C1614-M(KP)
- 1 X D65 LENS PROTECTION METAL-GLASS IP67 DEGREE OF PROTECTION FOR MV440 DEVICES
- 1 X INTERMEDIATE RING SET 0.5/1/1MM
- 1 X BUILT-IN RING LIGHT RED FOR ALL MV440 DEVICES
- 1 X BUILT-IN RING LIGHT WHITE FOR ALL MV440 DEVICES
- 1 X IE CONNECTING CABLE M12-180/IE FC RJ45 PLUG-145; LENGTH 10.0 M

6GF3440-1GE10

6GF3400-1SL01

6GF3400-0SL03

6GF3440-8CA

6GF3440-8BA2

6GF9001-1BF01

6GF3440-8AC11

6GF9001-1BU01

6GF3440-8DA11

6GF3440-8DA21

6XV1871-5TN10

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ **Sensor Technology**
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Recommended accessories:

6XV1870-3RH60

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD
RJ45/RJ45, CROSSED TP CABLE 4X2, PREASSEMBLED
WITH 2 RJ45 CONNECTORS, LENGTH 6 M

6GK1950-0BB00

Trainer Package: FASTCONNECT connection technology

Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	Parameterization with web-based user interface with browser (as of IE5.5), JAVA-VM (MS, SUN)
Order number:	6GF3400-0TP03

SIMATIC MV440 HR Optical Reader



1x MV440
Optical Reader
6GF3440-1GE10



1x Lens 12mm
6GF9001-1BL01



BUILT-IN RING LIGHT
1x 6GF3440-8DA11 Red
1x 6GF3440-8DA21 White



1x TEXT-GENIUS PLUS
6GF3400-1SL01



1x PAT-GENIUS
6GF3400-0SL03



1x MOUNTING PLATE
6GF3440-8CA



1x INTERMEDIATE RING
6GF9001-1BU01



1x PROTECTION HOUSING
6GF3440-8AC11



1x IE CABLE
6XV1871-5TN10



1x POWER CABLE
6GF3440-8BA2

Recommended accessories:

6XV1870-3RH60

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD
RJ45/RJ45, CROSSED TP CABLE 4X2, PREASSEMBLED
WITH 2 RJ45 CONNECTORS, LENGTH 6 M

6GK1950-0BB00

Trainer Package: FASTCONNECT connection technology

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ **Sensor Technology**
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

SIMATIC RFID – RF200

<p>2 SIMATIC RF200 READER RF240R; RS422-INTERFACE (3964R); WITH INTEGRATED ANTENNA</p> <p>1 RFID COMMUNICATION MODULE RF180C FOR PN; 2 READERS CONNECTABLE; WITHOUT CONNECTING BLOCK FOR PROFINET</p> <p>1 RFID PROFINET- / ETHERNET- CONNECTING BLOCK PUSH-PULL RJ45 FOR RF180C, RF182C</p> <p>1 POWER PLUG PRO, 5-POLE PUSH PULL POWER PLUG FOR ON-SITE MOUNTING (PACKAGING UNIT: 1 PLUG)</p> <p>1 IE FC RJ45 PLUG PRO; IP65; FAST CONNECT; IE; RJ45 PUSH PULL PLUG FOR ON-SITE MOUNTING TO IE FC TP CABLE 2X2; (PACKAGING UNIT 1 PLUG)</p> <p>2 SIMATIC RF, MV CONNECT. CABLE, PREASSEMBLED, BETWEEN ASM 456, RF160C, RF170C, RF18XC AND READER OR EXTENSION CABLE FOR ASM 456, RF160C, RF170C, RF18XC WITH RF, MV, MOBY PUR, CMG, LENGTH 2 M</p> <p>1 RFID SYSTEMS SOFTWARE & DOCUMENTATION ON DVD, FB/FC FOR SIMATIC, RFID PC LIBRARIES, RFID TOOLS</p> <p>5 MOBY D / RF300 ISO / RF200 TRANSPONDER MDS D400 ISO-CARD, 2000 BYTE (NETTO)</p> <p>5 MOBY D / RF300 ISO MOBILE DATA STORAGE MDS D460, ACCORDING TO ISO 15693; 2000 BYTE FRAM;</p> <p>5 MOBY D / RF300 ISO SPACER FOR MDS D160 / MDS D460; DIAMETER 20 MM; HEIGHT 15 MM</p> <p>5 RF200 / RF300 ISO TRANSPONDER MDS D423; TRANSPONDER IN AND ON METAL ACCORDING;2000 BYTE FRAM</p>	<p>6GT2821-4AC10</p> <p>6GT2002-0JD00</p> <p>6GT2002-2JD00</p> <p>6GK1907-0AB10-6AA0</p> <p>6GK1901-1BB20-6AA0</p> <p>6GT2891-4FH20</p> <p>6GT2080-2AA20</p> <p>6GT2600-4AD00</p> <p>6GT2600-4AB00</p> <p>6GT2690-0AG00</p> <p>6GT2600-4AA00</p>	<ul style="list-style-type: none"> ▶ Industrial Controls ▶ Engineering Software ▶ SIMIT Simulation ▶ Basic Automation ▶ Controller/PLC ▶ Distributed I/Os ▶ Operator control & monitoring ▶ Process Automation ▶ Industrial Communication ▶ Sensor Technology ▶ Drive Technology ▶ CNC Software ▶ PLM Software ▶ Important Notes
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System requirements:	64 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	None available
Order number:	6GT2096-3AA00-0AA0

SIMATIC RFID – RF200



2 x RF200 READER
RF240R



1 x COMMUNICATION
MODULE RF180C



1 x PROFINET/ETHERNET
CONNECTING BLOCK



1 x POWER PLUG PRO



1 x PUSH PULL PLUG



5 x TRANSPONDER
MDS D400 ISO-CARD



5 x MOBILER
DATA STORAGE



5 x SPACER



5 x TRANSPONDER



2 x Terminal Cable



1 x RFID-System SW
& documentation

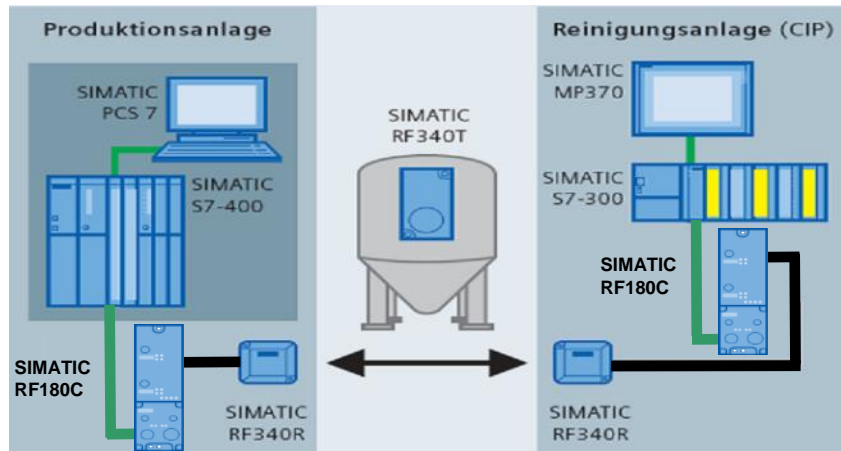
- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ **Sensor Technology**
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

SIMATIC RFID – RF300

1	RFID COMMUNICATION MODULE RF180C FOR PROFINET; 2 READERS CONNECTABLE	6GT2002-0JD00	▶ Industrial Controls
1	RFID PROFINET-/ETHERNET- CONNECTING BLOCK	6GT2002-2JD00	▶ Engineering Software
2	RF300/600 CONN. CABLE PREASSEMBLED, LENGTH: 2 M	6GT2891-4FH20	▶ SIMIT Simulation
1	RFID SYSTEMS SOFTWARE PACKAGE AND DOCUMENTATION ON CD	6GT2080-2AA20	▶ Basic Automation
1	RF300 READER RF340R (RF300+ISO15693) WITH RS422 AND INTEGRATED ANTENNA	6GT2801-2AB10	▶ Controller/PLC
1	POWER PLUG PRO, 5-POLE PUSH PULL	6GK1907-0AB10-6AA0	▶ Distributed I/Os
1	RF300 READER RF310R (RF300+ISO15693) WITH RS422 AND INTEGRATED ANTENNA	6GT2801-1AB10	▶ Operator control & monitoring
5	TRANSPONDER RF340T 8 KBYTE FRAM	6GT2800-4BB00	▶ Process Automation
10	TRANSPONDER RF360T EPOXY-CARD, 8 KBYTE FRAM	6GT2800-4AC00	▶ Industrial Communication
20	MOBY D / RF300 ISO MOBILE DATA MEMORY MDS D124 , 112 BYTE EEPROM	6GT2600-0AC10	▶ Sensor Technology
			▶ Drive Technology
			▶ CNC Software
			▶ PLM Software
			▶ Important Notes

System requirements:	64 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	None available
Order number:	6GT2096-1AA00-0AA0

SIMATIC RFID – RF300



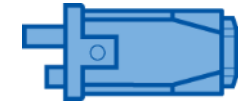
Tank monitoring by RFID Nameplates, documentation of process data



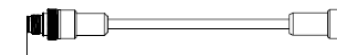
1x PROFINET Communication Module RF180C with RJ45 Connector Terminal Block in IP67



1x Software and documentation



1x Power Supply Cable for RF180C



2x Terminal Cable between Reader RF340R and Connect Module RF180C

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ **Sensor Technology**
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes



1x SIMATIC RF310R Reader 55x75x30



1x SIMATIC RF340R Reader 75x75x41



5x SIMATIC RF340T Transponder 8kByte Memory



10x SIMATIC RF360T Transponder 8kByte Memory



20x MDS D124 Mobile data memory 112 Byte EEPROM

SIMATIC SIWAREX Weighing Systems

1 x SIWAREX FTA

- Project engineering package FTA
- Connecting cable (RS232C)
- Documentation on CD

1 x SIWAREX U

- Project engineering package U
- Connecting cable (RS232C)
- Documentation on CD

1 x Load cell series BB, nominal load 10kg

1 x base plate with overload protection

1 x Elastomer bearing

1 x License agreement



Load cell series BB



SIWAREX U



SIWAREX FTA

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ **Sensor Technology**
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

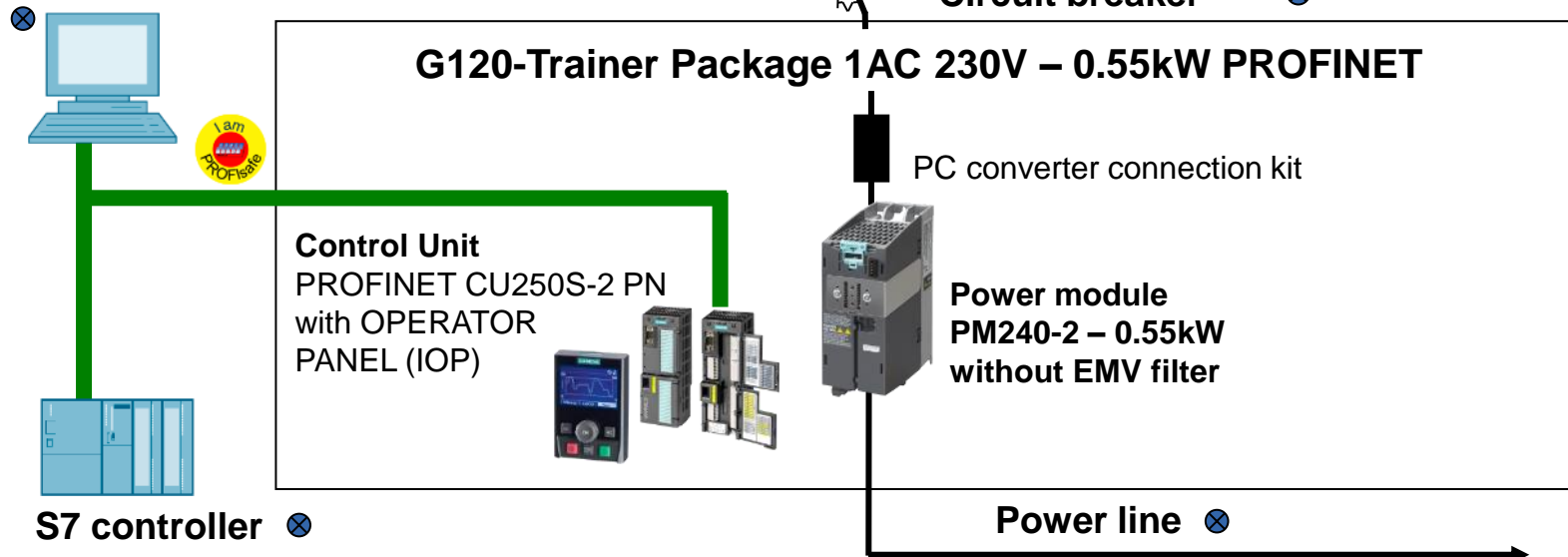
System requirements:	None
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	None available
Order number:	7MH4901-0AA10

- **Overview**

- SINAMICS G120 Standard drive 230V 400V
- SINAMICS S120 Servo drive 230V 400V
- SIMOTION D410 Add-on for S120

SINAMICS G120 standard drive 1 AC 230V network Overview

Software
Startdrive/STARTER



Asynchronous motor ⊗
i.e.. 1LE1
With power: 0.55kW



⊗ Not part of the package

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements: 64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

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

Technical note: See next slides

Order number: 6SL3200-3AX00-0UL1

* V14: also 64 BIT Windows 8.1 Professional, Enterprise

Core product for vocational World Cup Industrial Control



[Download STARTER](#)

[Download Startdrive](#)

SINAMICS G120 standard drive 1 AC 230V network

<p>1 SINAMICS G120 POWER MODULE PM240-2 WITHOUT FILTER WITH BUILT IN BRAKING CHOPPER 1/3AC200-240V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 0,55KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP -10 TO +50 DEG C OUTPUT LOW OVERLOAD: 0,75KW FOR 150% 3S,110% 57S,100% 240S AMBIENT TEMP -10 TO +40 DEG C 196 X 73 X 165 (HXWXD), FSA PROTECTION IP20 WITHOUT CONTROL UNIT AND OPERATOR PANEL APPROVED FOR CU FIRMWARE VERSION V4.6</p>	6SL3210-1PB13-8UL0	<ul style="list-style-type: none"> ▶ Industrial Controls ▶ Engineering Software ▶ SIMIT Simulation ▶ Basic Automation
<p>1 SINAMICS G120 CONTROL UNIT CU250S-2 PN INTEGRATED PROFINET SUPPORT OF VECTOR CONTROL, EASY POSITIONING EPOS VIA EXTENDED FUNCTION LICENSE 4 CONFIGURABLE DI/DO, 6 DI (3 F-DI), 5 DI, 3 DO (1 F-DO), 2 AI, 2 AO SAFETY INTEGRATED STO, SBC, SS1 FURTHER SAFETY FUNCTIONS VIA "EXTENDED SAFETY" LICENSE, ENCODER: D-CLIQ + HTL/TTL/SSI, RESOLVER/HTL VIA TERMINAL DEGREE OF PROTECTION IP20 USB AND SD/MMC INTERFACE</p>	6SL3246-0BA22-1FA0	<ul style="list-style-type: none"> ▶ Controller/PLC ▶ Distributed I/Os ▶ Operator control & monitoring ▶ Process Automation
<p>1 SINAMICS SD-CARD 512 MB EMPTY</p>	6SL3054-4AG00-2AA0	<ul style="list-style-type: none"> ▶ Industrial Communication
<p>1 SINAMICS G120 SHIELD CONNECTION KIT 4 INCLUDES SCREENING PLATE AND FIXING ELEMENTS FOR CONTROL UNITS CU250S-2 VERSION: USS, CAN, DP, PN</p>		<ul style="list-style-type: none"> ▶ Sensor Technology
<p>1 SINAMICS G120 INTELLIGENT OPERATOR PANEL IOP OPTIONAL OPERATOR PANEL FOR SINAMICS G120, G120P, G110M, G110D, G120D, G120C, S110, ET200S FC, ET200PRO FC</p>	6SL3255-0AA00-4JA1	<ul style="list-style-type: none"> ▶ Drive Technology
<p>1 SINAMICS G120 PC CONVERTER CONNECTION KIT 2 3M USB CABLE FOR CONTROL UNITS CU230P-2, CU240B-2, CU240E-2, CU250S-2, G110M AND SINAMICS G120C</p>	6SL3255-0AA00-2CA0	<ul style="list-style-type: none"> ▶ CNC Software
<p>1 SINAMICS LICENSE SAFETY INTEGRATED EXTENDED FUNCTIONS FOR MEMORY CARD</p>	6SL3074-0AA10-0AA0	<ul style="list-style-type: none"> ▶ PLM Software
<p>1 SINAMICS G120 LICENSE EXTENDED FUNCTIONS FOR MEMORY CARD OF CU250S-2 VECTOR FOR FUNCTIONALITY: EPOS</p>	6SL3074-7AA04-0AA0	<ul style="list-style-type: none"> ▶ Important Notes

SINAMICS G120 standard drive 1 AC 230V network

Optional motors

SIEMENS

SIMOTICS GP Low-voltage motor without encoder

SIMOTICS GP MOTOR TYPE: 1AV3082B LOW-VOLTAGE MOTOR, IEC SQUIRREL-CAGE, SELF-VENTIL., IP55 TEMP. CL. 155(F) ACC.TO 130(B) ALUMINUM HOUSING PREMIUM EFFICIENCY, 4POLE * FS80M * 0.55KW (50HZ) 0.63KW (60HZ) 3 AC 50HZ 230VD/400VY * 3 AC 60HZ 460VY IM B 3, MOTOR PROTECTION, 1 PTC THERMISTOR 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, SELF-VENTIL., IP55 TEMP. CL. 155(F) ACC.TO 130(B) ALUMINUM HOUSING PREMIUM EFFICIENCY, 4POLE * FS80M * 0.55KW (50HZ) 0.63KW (60HZ) 3 AC 50HZ 230VD/400VY * 3 AC 60HZ 460VY IM B 3, MOTOR PROTECTION WITH 1 PTC THERMISTOR FOR SHUTDOWN G01=MOUNTING ROTARY PULSE ENCODER 1XP8012-10 (HTL) 1024 PULSES, WITH EXTERNAL FAN (F70) 1XP8032-10 IS USED

1LE1003-0DB22-2AB4-Z G01

SIMOTICS GP Low-voltage motor with TTL encoder

SIMOTICS GP MOTOR TYPE: 1AV3082B LOW-VOLTAGE MOTOR, IEC SQUIRREL-CAGE, SELF-VENTIL., IP55 TEMP. CL. 155(F) ACC.TO 130(B) ALUMINUM HOUSING PREMIUM EFFICIENCY, 4POLE * FS80M * 0.55KW (50HZ) 0.63KW (60HZ) 3 AC 50HZ 230VD/400VY * 3 AC 60HZ 460VY IM B 3, MOTOR PROTECTION WITH 1 PTC THERMISTOR FOR SHUTDOWN TERMINAL BOX AT TOP G02=MOUNTING A ROTARY PULSE ENCODER 1XP8012-20 (TTL) 1024 PULSES, WITH EXTERNAL FAN (F70) 1XP8032-20 IS USED

1LE1003-0DB22-2AB4-Z G02

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Note: When selecting motors, please contact your local Siemens technical sales department

SINAMICS G120 standard drive 1 AC 230V network

Optional hardware

SIEMENS

CIRCUIT BREAKER

230/400V 6KA, 1POLE, C, 10A, T=70mm

5SY6110-7

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ **Drive Technology**
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Recommended accessories:

6XV1870-3RH60

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CROSSED TP CABLE 4X2, PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 6 M

6GK1950-0BB00

Trainer Package: FASTCONNECT connection technology

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

Note: When selecting motors, please contact your local Siemens technical sales department

SINAMICS G120 standard drive 1 AC 230V network

Optional software

SIEMENS

STARTER

COMMISSIONING TOOL FOR SINAMICS AND MICROMASTER VERSION V4.5 SP1

[6SL3072-0AA00-0AG0](#)

- ▶ Industrial Controls
- ▶ Engineering Software

STARTDRIVE

ENGINEERING AND COMMISSIONING TOOL FOR SINAMICS VERSION V14

[6SL3072-4EA02-0XA0](#)

- ▶ SIMIT Simulation
- ▶ Basic Automation

SIZER

CONFIGURATION TOOL FOR SIEMENS DRIVES

[6SL3070-0AA00-0AG0](#)

- ▶ Controller/PLC
- ▶ Distributed I/Os

DRIVE ES BASIC V5.5 SP5

ENGINEERING-SW FOR DRIVES

5-LANGUAGE DVD WITH ELECTRONIC DOCUMENTATION, FOR STEP 7 V5.5 SP2

FLOATING LICENSE

[6SW1700-5JA00-5AA0](#)

- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication

DRIVE ES SIMATIC V5.5 SP1

DRIVE ES SIMATIC V5.5 SP1 BLOCK LIBRARIES FOR SIMATIC S7

FOR COMMUNICATION WITH DRIVES 5-LANGUAGE CD; WITH ELECTRONIC DOCUMENTATION

[6SW1700-5JC00-5AA0](#)

- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

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

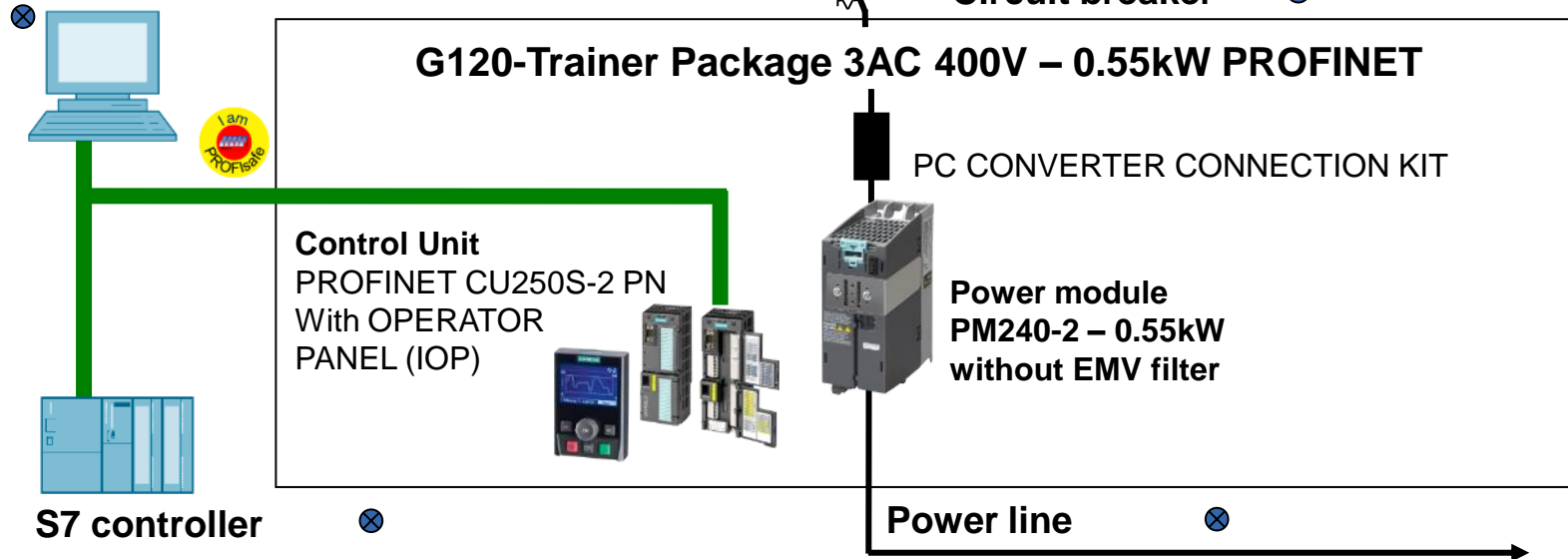
Note: When selecting motors, please contact your local Siemens technical sales department


[↗ Download STARTER](#)

[↗ Download Startdrive](#)


SINAMICS G120 standard drive 3 AC 400V network Overview

Software
Startdrive/STARTER



Asynchronous motor 
i.e.. 1LE1
With power: 0.55kW



 Not part of the package

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements: 64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

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

Technical note: See slides below

Order number: 6SL3200-3AX00-0UL2

[Download STARTER](#)

[Download Startdrive](#)

SINAMICS G120 standard drive 3 AC 400V network

1	SINAMICS G120 POWER MODULE PM240-2 UNFILTERED WITH INTEGRATED BRAKING CHOPPER 3AC380-480V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 0.55KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP. -10 TO +50 DEG C OUTPUT LOW OVERLOAD: 0.75KW AT 150% 3S,110% 57S,100% 240S AMBIENT TEMP. -10 TO +40 DEG C 196 X 73 X 165 (HXWXD), FSA PROTECTION IP20 WITHOUT CONTROL UNIT AND OPERATOR PANEL APPROVED FOR CU FIRMWARE VERSION V4.6	6SL3210-1PE12-3UL1	▶ Industrial Controls ▶ Engineering Software ▶ SIMIT Simulation ▶ Basic Automation ▶ Controller/PLC ▶ Distributed I/Os ▶ Operator control & monitoring ▶ Process Automation ▶ Industrial Communication ▶ Sensor Technology ▶ Drive Technology ▶ CNC Software ▶ PLM Software ▶ Important Notes
1	SINAMICS G120 CONTROL UNIT CU250S-2 PN INTEGRATED PROFINET SUPPORT OF VECTOR CONTROL, BASIC POSITIONER EPOS VIA EXTENDED FUNCTION LICENSE 4 CONFIGURABLE DI/DO, 6 DI (3 F-DI), 5 DI, 3 DO (1 F-DO), 2 AI, 2 AO SAFETY INTEGRATED STO, SBC, SS1 FURTHER SAFETY FUNCTIONS VIA "EXTENDED SAFETY" LICENSE ENCODER: D-CLIQ + HTL/TTL/SSI, RESOLVER/HTL VIA TERMINAL DEGREE OF PROTECTION IP20 USB AND SD/MMC INTERFACE	6SL3246-0BA22-1FA0	
1	SINAMICS SD CARD 512 MB EMPTY	6SL3054-4AG00-2AA0	
1	SINAMICS G120 SHIELD CONNECTION KIT 4 INCLUDES SCREENING PLATE AND FIXING ELEMENTS FOR CONTROL UNITS CU250S-2 VERSION: USS, CAN, DP, PN	6SL3264-1EA00-0LA0	
1	SINAMICS G120 INTELLIGENT OPERATOR PANEL IOP OPTIONAL OPERATOR PANEL FOR SINAMICS G120, G120P, G110M, G110D, G120D, G120C, S110, ET200S FC, ET200PRO FC	6SL3255-0AA00-4JA1	
1	SINAMICS G120 PC CONVERTER CONNECTION KIT 2 3M USB CABLE FOR CONTROL UNITS CU230P-2, CU240B-2, CU240E-2, CU250S-2, G110M AND SINAMICS G120C	6SL3255-0AA00-2CA0	
1	SINAMICS LICENSE SAFETY INTEGRATED EXTENDED FUNCTIONS FOR MEMORY CARD	6SL3074-0AA10-0AA0	
1	SINAMICS G120 LICENSE EXTENDED FUNCTIONS FOR MEMORY CARD OF CU250S-2 VECTOR FOR FUNCTIONALITY: EPOS	6SL3074-7AA04-0AA0	

SINAMICS G120 standard drive 3 AC 400V network

Optional motors

SIEMENS

SIMOTICS GP Low-voltage motor without encoder

SIMOTICS GP MOTOR TYPE: 1AV3082B LOW-VOLTAGE MOTOR, IEC SQUIRREL-CAGE, SELF-VENTIL., IP55 TEMP. CL. 155(F) ACC.TO 130(B) ALUMINUM HOUSING PREMIUM EFFICIENCY, 4POLE * FS80M * 0.55KW (50HZ) 0.63KW (60HZ) 3 AC 50HZ 230VD/400VY * 3 AC 60HZ 460VY IM B 3, MOTOR PROTECTION WITH 1 PTC THERMISTOR FOR SHUTDOWN TERMINAL BOX AT TOP

1LE1003-0DB22-2AB4

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation

SIMOTICS GP Low-voltage motor with HTL encoder

Z= G01 with HTL encoder SIMOTICS GP MOTOR TYPE: 1AV3082B LOW-VOLTAGE MOTOR, IEC SQUIRREL-CAGE, SELF-VENTIL., IP55 TEMP. CL. 155(F) ACC.TO 130(B) ALUMINUM HOUSING PREMIUM EFFICIENCY, 4POLE * FS80M * 0.55KW (50HZ) 0.63KW (60HZ) 3 AC 50HZ 230VD/400VY * 3 AC 60HZ 460VY IM B 3, MOTOR PROTECTION WITH 1 PTC THERMISTOR FOR SHUTDOWN G01=MOUNTING ROTARY PULSE ENCODER 1XP8012-10 (HTL) 1024 PULSES, WITH EXTERNAL FAN (F70) 1XP8032-10 IS USED

1LE1003-0DB22-2AB4-Z G01

- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication

SIMOTICS GP Low-voltage motor with TTL encoder

SIMOTICS GP MOTOR TYPE: 1AV3082B LOW-VOLTAGE MOTOR, IEC SQUIRREL-CAGE, SELF-VENTIL., IP55 TEMP. CL. 155(F) ACC.TO 130(B) ALUMINUM HOUSING PREMIUM EFFICIENCY, 4POLE * FS80M * 0.55KW (50HZ) 0.63KW (60HZ) 3 AC 50HZ 230VD/400VY * 3 AC 60HZ 460VY IM B 3, MOTOR PROTECTION WITH 1 PTC THERMISTOR FOR SHUTDOWN TERMINAL BOX AT TOP G02=MOUNTING ROTARY PULSE ENCODER 1XP8012-20 (TTL) 1024 PULSES, WITH EXTERNAL FAN (F70) 1XP8032-20 IS USED

1LE1003-0DB22-2AB4-Z G02

- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Note: When selecting motors, please contact your local Siemens technical sales department

SINAMICS G120 standard drive 3 AC 400V network

Optional hardware

SIEMENS

SINAMICS LINE REACTOR (lateral configuration)
380-480V 3AC 47-63HZ, I_{LN} = 4.0A, STANDALONE

6SL3203-0CE13-2AA0

CIRCUIT BREAKER, Frame size S00

3RV2011-1FA10

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ **Drive Technology**
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Recommended accessories:

6XV1870-3RH60

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45,
CROSSED TP CABLE 4X2, PREASSEMBLED WITH 2 RJ45
CONNECTORS, LENGTH 6 M

6GK1950-0BB00

Trainer Package: FASTCONNECT
connection technology

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

Note: When selecting motors, please contact your local Siemens technical sales department

SINAMICS G120 standard drive 3 AC 400V network

Optional software

SIEMENS

STARTER

COMMISSIONING TOOL FOR SINAMICS AND MICROMASTER VERSION V4.5 SP1

[6SL3072-0AA00-0AG0](#)

- ▶ Industrial Controls
- ▶ Engineering Software

STARTDRIVE

ENGINEERING AND COMMISSIONING TOOL FOR SINAMICS VERSION V14

[6SL3072-4EA02-0XA0](#)

- ▶ SIMIT Simulation
- ▶ Basic Automation

SIZER

CONFIGURATION TOOL FOR SIEMENS DRIVES

[6SL3070-0AA00-0AG0](#)

- ▶ Controller/PLC
- ▶ Distributed I/Os

DRIVE ES BASIC V5.5 SP5

ENGINEERING SW FOR DRIVES,
5-LANGUAGE DVD WITH ELECTRONIC DOCUMENTATION FOR STEP 7 V5.5 SP2
FLOATING LICENSE

[6SW1700-5JA00-5AA0](#)

- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication

DRIVE ES SIMATIC V5.5 SP1

DRIVE ES SIMATIC V5.5 SP1 BLOCK LIBRARIES FOR SIMATIC S7
FOR COMMUNICATION WITH DRIVES 5-LANGUAGE CD; WITH ELECTRONIC
DOCUMENTATION

[6SW1700-5JC00-5AA0](#)

- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

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

Note: When selecting motors, please contact your local Siemens technical sales department

[↗ Download STARTER](#)

[↗ Download Startdrive](#)

SINAMICS G120 – Information

Catalog note

SINAMICS G120: Siemens D31
Asynchronous motors: Siemens D81.1

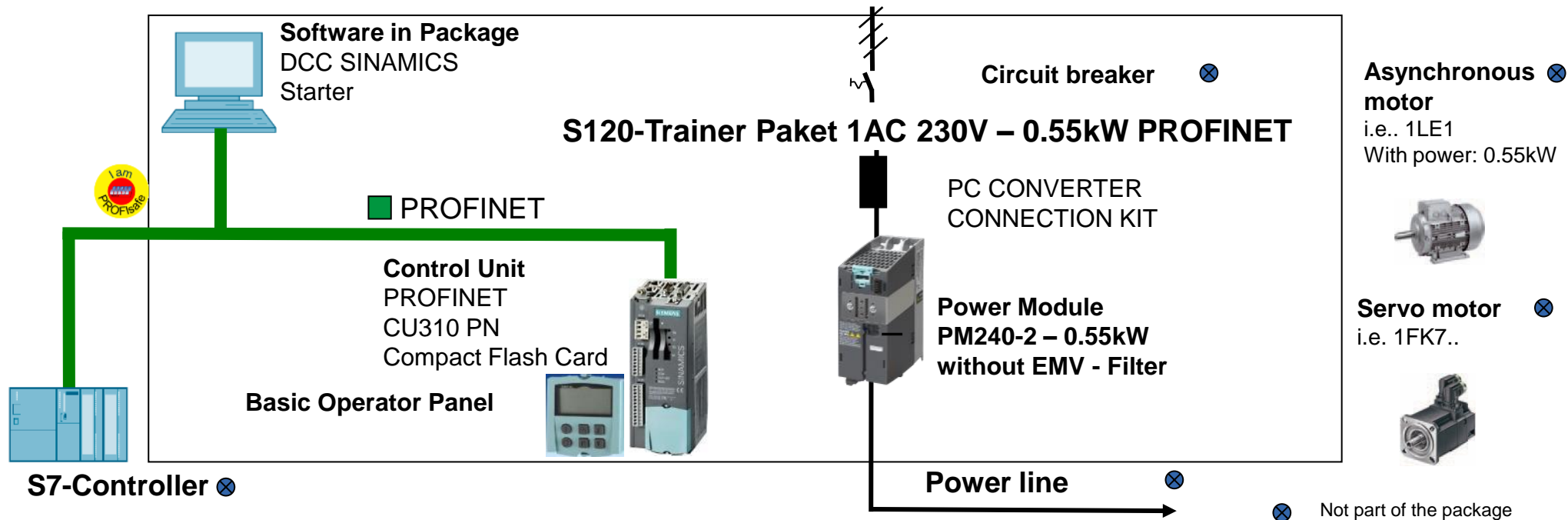
Helpful information to download

[↗ SINAMICS G120C](#)

[↗ Energy saving with SINAMICS G120](#)

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ **Drive Technology**
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

SINAMICS S120 servo drive 1 AC 230V network



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements: 64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

* V14: auch 64 BIT Windows 8.1 Professional / Enterprise

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

Technical note:

Order number: 6SL3080-8AB01-0AA0

Note: When selecting motors, please contact your local Siemens technical sales department

SINAMICS S120 servo drive 1 AC 230V network

<p>1 SINAMICS G120 POWER MODULE PM240-2 WITHOUT FILTER WITH BUILT IN BRAKING CHOPPER 1/3AC200-240V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 0,55KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP -10 TO +50 DEG C OUTPUT LOW OVERLOAD: 0,75KW FOR 150% 3S,110% 57S,100% 240S AMBIENT TEMP -10 TO +40 DEG C 196 X 73 X 165 (HXWXD), FSA PROTECTION IP20 WITHOUT CONTROL UNIT AND PANEL APPROVED FOR CU FIRMWARE- VERSION V4.6</p>	<p>6SL3210-1PB13-8UL0</p>	<ul style="list-style-type: none"> ▶ Industrial Controls ▶ Engineering Software ▶ SIMIT Simulation ▶ Basic Automation
<p>1 SINAMICS S120 CONTROL UNIT CU310-2 PN WITH PROFINET INTERFACE WITHOUT COMPACTFLASH CARD</p>	<p>6SL3040-1LA01-0AA0</p>	<ul style="list-style-type: none"> ▶ Controller/PLC ▶ Distributed I/Os
<p>1 SINAMICS S120 COMPACTFLASH CARD W/O PERFORMANCE EXTENSION INCLUDING CERTIFICATE OF LICENCE V4.7</p>	<p>6SL3054-0EH00-1BA0-Z:F01</p>	<ul style="list-style-type: none"> ▶ Operator control & monitoring ▶ Process Automation
<p>1 SINAMICS S120 BASIC OPERATOR PANEL BOP20 FOR ELECTRONIC CONTROLS TWO-LINE DISPLAY, 6 KEYS FOR PARAMETER SETTING AND DIAGNOSTIC INFORMATION SUITED FOR CONTROL UNITS CU305, CU310, CU320</p>	<p>6SL3055-0AA00-4BA0</p>	<ul style="list-style-type: none"> ▶ Industrial Communication ▶ Sensor Technology
<p>1 SOFTWARE ON DVD: STARTER COMMISSIONING TOOL FOR SINAMICS AND MICROMASTER VERSION V4.4 SP1 DVD FOR WINDOWS SERVER 2008 R2 SP1 (64-BIT) WINDOWS XP PROF SP3 (32-BIT), WINDOWS 7 (32 BIT AND 64 BIT) PROFESSIONAL, ULTIMATE AND ENTERPRISE (STANDARD) GERMAN, ENGLISH, SPANISH FRENCH AND ITALIAN CONTAINS ALREADY THE SSP FOR SINAMICS G120 VERSION V4.7 SP3 SINAMICS S110 VERSION V4.4 SP3 SINAMICS MV VERSION V4.7 SP4 SINAMICS DCP VERSION V1.1 SINAMICS DCM VERSION V1.4 SP1</p>	<p>6SL3072-0AA00-0AG0</p>	<ul style="list-style-type: none"> ▶ Drive Technology ▶ CNC Software ▶ PLM Software
<p>1 SINAMICS ENGINEERINGSYSTEM SINAMICS DCC V2.3 SP1 FULL LICENSE DCC FOR SINAMICS OPTION TO STARTER V4.4 SP1 DELIVERY ON DATA CARRIER DVD INCL: FLOATING LICENSE</p>	<p>6AU1810-1HA23-1XA0</p>	<ul style="list-style-type: none"> ▶ Important Notes

SINAMICS S120 servo drive 1 AC 230V network

Optional Hardware

SIEMENS

Circuit breaker:

230/400V 6KA, 1-POLE, C, 10A, D=70MM

Power supply:

SITOP MODULAR ; INPUT: 120/230-500 V AC OUTPUT: 24 V DC/5 A

Power supply:

LOGO!POWER 24 V/4 A; INPUT: 100-240 V AC; OUTPUT: 24 DC/4A

Cable:

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6A, CROSSED, LENGTH 6 M

Documentation:

SINAMICS S120 on CD-ROM

Terminal module TM 31 I/O expansion:

For the SINAMICS S120; 12 DI, 2 DA, 2 AE, 2 AA

Terminal module TM54F Safety I/O:

For devices S120; Fail-safe digital inputs and outputs

Signal line:

DRIVE-CLIQ cable IP20 / IP20 Length: 0.95 meters

5SY6110-7

6EP1333-3BA00

6EP1332-1SH52

6XV1870-3RH60

6SL3097-2CA00-0YG5

6SL3055-0AA00-3AA1

6SL3055-0AA00-3BA0

6SL3060-4AA10-0AA0

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Note: When selecting motors, please contact your local Siemens technical sales department

SINAMICS S120 Servoantrieb 1 AC 230V Netz

Optionale Software

SIEMENS

SIZER

SIEMENS DRIVES DRIVE DESIGN TOOL

6SL3070-0AA00-0AG0

- ▶ Industrial Controls
- ▶ Engineering Software

DRIVE ES BASIC V5.5 SP5

SOFTWARE ON DL-DVD: DRIVE ES BASIC V5.5 SP5 ENGINEERING-SW FOR DRIVES.
5-LANGUAGE DVD WITH ELECTR. DOCUMENTATION, FOR STEP 7 V5.5 FLOATING LICENSE

6SW1700-5JA00-5AA0

- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os

DRIVE ES SIMATIC V5.5 SP1

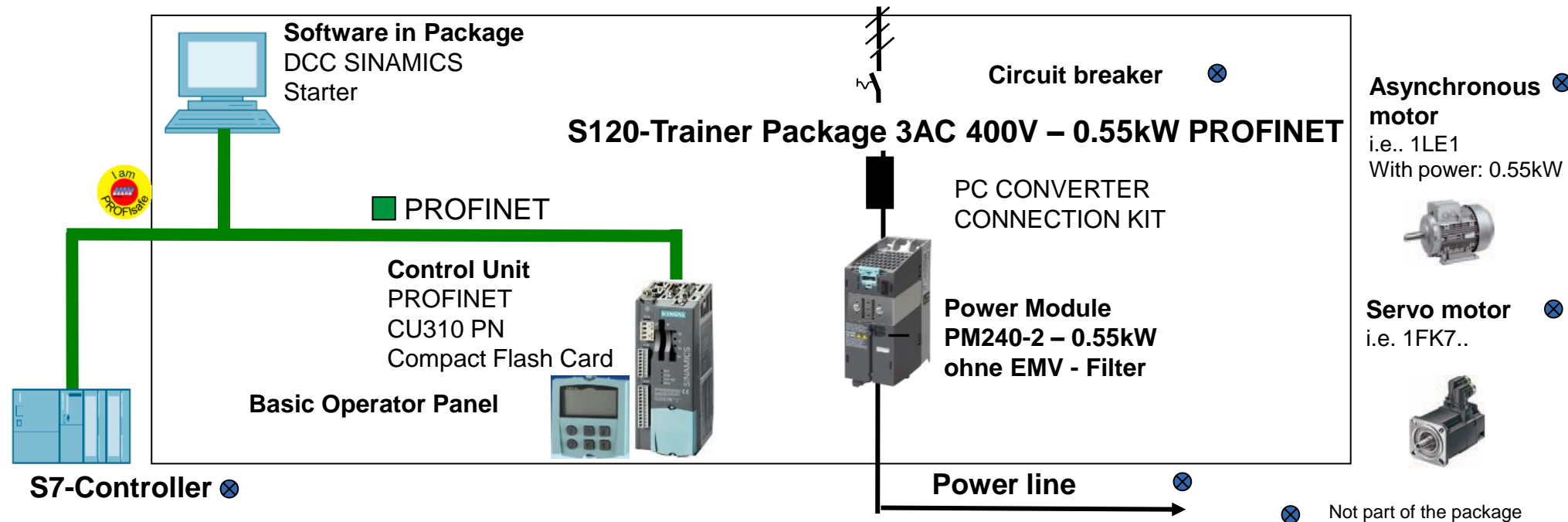
SOFTWARE ON CD: DRIVE ES SIMATIC V5.5 SP1 BLOCK LIBRARIES FOR SIMATIC S7 FOR
COMMUNICATION WITH DRIVES 5-LANGUAGE CD; WITH ELECTR. DOCUMENTATION

6SW1700-5JC00-5AA0

- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Note: When selecting motors, please contact your local Siemens technical sales department

SINAMICS S120 Servo drive 3 AC 400V Netz



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

System requirements: 64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1
32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

* V14: auch 64 BIT Windows 8.1 Professional / Enterprise

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

Technical note:

Order number: 6SL3080-8AE01-0AA0

Note: When selecting motors, please contact your local Siemens technical sales department

[Download STARTER](#)

[Download Startdrive](#)

SINAMICS S120 Servoantrieb 3 AC 400V Netz

1	UNFILTERED WITH INTEGRATED BRAKING CHOPPER 3AC380-480V +10/-10% 47-63HZ OUTPUT HIGH OVERLOAD: 0.55KW FOR 200% 3S,150% 57S,100% 240S AMBIENT TEMP. -10 TO +50 DEG C OUTPUT LOW OVERLOAD: 0.75KW AT 150% 3S,110% 57S,100% 240S AMBIENT TEMP. -10 TO +40 DEG C 196 X 73 X 165 (HXWXD), FSA PROTECTION IP20 WITHOUT CONTROL UNIT AND OPERATOR PANEL APPROVED FOR CU FIRMWARE VERSION V4.6	6SL3210-1PE12-3UL1	<ul style="list-style-type: none"> ▶ Industrial Controls ▶ Engineering Software ▶ SIMIT Simulation ▶ Basic Automation ▶ Controller/PLC ▶ Distributed I/Os ▶ Operator control & monitoring ▶ Process Automation ▶ Industrial Communication ▶ Sensor Technology ▶ Drive Technology ▶ CNC Software ▶ PLM Software ▶ Important Notes
1	SINAMICS S120 CONTROL UNIT CU310-2 PN WITH PROFINET INTERFACE WITHOUT COMPACTFLASH CARD	6SL3040-1LA01-0AA0	
1	SINAMICS S120 COMPACTFLASH CARD W/O PERFORMANCE EXTENSION INCLUDING CERTIFICATE OF LICENCE V4.7 F01: 1 X SAFETY LICENCE DBSI	6SL3054-0EH00-1BA0-Z:F01	
1	SINAMICS S120 BASIC OPERATOR PANEL BOP20 FOR ELECTRONIC CONTROLS TWO-LINE DISPLAY, 6 KEYS FOR PARAMETER SETTING AND DIAGNOSTIC INFORMATION SUITED FOR CONTROL UNITS CU305, CU310, CU320	6SL3055-0AA00-4BA0	
1	SOFTWARE ON DVD: STARTER COMMISSIONING TOOL FOR SINAMICS AND MICROMASTER VERSION V4.4 SP1 DVD FOR WINDOWS SERVER 2008 R2 SP1 (64-BIT) WINDOWS XP PROF SP3 (32-BIT), WINDOWS 7 (32 BIT AND 64 BIT) PROFESSIONAL, ULTIMATE AND ENTERPRISE (STANDARD) GERMAN, ENGLISH, SPANISH FRENCH AND ITALIAN CONTAINS ALREADY THE SSP FOR SINAMICS G120 VERSION V4.7	6SL3072-0AA00-0AG0	
1	SINAMICS ENGINEERINGSYSTEM SINAMICS DCC V2.3 SP1 FULL LICENSE DCC FOR SINAMICS OPTION TO STARTER V4.4 SP1 DELIVERY ON DATA CARRIER DVD INCL: FLOATING LICENSE	6AU1810-1HA23-1XA0	

SINAMICS S120 Servo drive 3 AC 400V Netz

Optionale Hardware

SIEMENS

Circuit breaker:

CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 3.5...5A,

Power supply:

SITOP MODULAR; INPUT: 120/230-500 V AC OUTPUT: 24 V DC/5 A

Power supply:

LOGO!-POWER 24 V/4 A; INPUT: 100-240 V AC; OUTPUT: 24 DC/4 A

Cable:

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6A, CROSSED, LENGTH 6 M

Documentation:

SINAMICS S120 on CD-ROM

Terminal module TM 31 I/O expansion:

For the SINAMICS S120; 12 DI, 2 DA, 2 AE, 2 AA

Terminal module TM54F Safety I/O:

For devices S120; Fail-safe digital inputs and outputs

Signal line:

DRIVE-CLIQ cable IP20 / IP20 Length: 0.95 meters

3RV2011-1FA10

6EP1333-3BA00

6EP1332-1SH52

6XV1870-3RH60

6SL3097-2CA00-0YG5

6SL3055-0AA00-3AA1

6SL3055-0AA00-3BA0

6SL3060-4AA10-0AA0

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Note: When selecting motors, please contact your local Siemens technical sales department

SINAMICS S120 Servoantrieb 3 AC 400V Netz

Optionale Software

SIEMENS

SIZER

SIEMENS DRIVES DRIVE DESIGN TOOL

6SL3070-0AA00-0AG0

- ▶ Industrial Controls
- ▶ Engineering Software

DRIVE ES BASIC V5.5 SP5

SOFTWARE ON DL-DVD: DRIVE ES BASIC V5.5 SP5 ENGINEERING-SW FOR DRIVES.
5-LANGUAGE DVD WITH ELECTR. DOCUMENTATION, FOR STEP7 V5.5 FLOATING LICENSE

6SW1700-5JA00-5AA0

- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os

DRIVE ES SIMATIC V5.5 SP1

SOFTWARE ON CD: DRIVE ES SIMATIC V5.5 SP1 BLOCK LIBRARIES FOR SIMATIC S7 FOR
COMMUNICATION WITH DRIVES 5-LANGUAGE CD; WITH ELECTR. DOCUMENTATION

6SW1700-5JC00-5AA0

- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Note: When selecting motors, please contact your local Siemens technical sales department

SIMOTION D410-2 add on for SINAMICS S120

1- and 3- phase

SIEMENS

SIMOTION D410-2 is a single-axis system, which can be used in combination with SINAMICS S120 AC/AC Power Module.

SIMOTION D410-2 is the entry level controller in the SIMOTION D family.

SIMOTION D410 is the ideal controller, if Motion Control for a single-axis and PLC functionality is demanded in a small form factor.

PROFINET IO with IRT (with D410-2 PN/DP) enables various connectivity with HMI and distributed IOs.



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

SIMOTION D410-2 add-on for SINAMICS S120

1	SIMOTION DRIVE-BASED CONTROL UNIT D410-2 DP/PN; PROGRAMMABLE SINGLE AXIS MOTION CONTROL WITH MULTIPLE AXES OPTION; INTERFACES: 5 DI, 8 DI/DO, 3 F-DI, 1 F-DO, 1 AI, 1 ENCODER, 1 DRIVE-CLIQ, 1 PROFIBUS, 2 PROFINET PORTS, 1 ETHERNET	6AU1410-2AD00-0AA0	▶ Industrial Controls ▶ Engineering Software
1	SIMOTION DRIVE-BASED 1 GB COMPACT FLASH CARD D410-2; SINAMICS DRIVE SOFTWARE V4.X AND SIMOTION KERNEL FOR SIMOTION D410-2; UP-TO-DATE SOFTWARE VERSION; NOTE: NOT FOR SIMOTION D410, D4X5 AND D4X5-2	6AU1400-1PA23-0AA0	▶ SIMIT Simulation ▶ Basic Automation
1	SIMOTION ENGINEERING SYSTEM SCOUT AND SCOUT TIA V4.4 FULL LICENSE DVD INCL. STARTER, RUNTIME, TECHN., DOCUMENTATION FREE UTILITIES	6AU1810-1BA44-0XA0	▶ Controller/PLC ▶ Distributed I/Os
1	SIMOTION ENGINEERING SYSTEM DCC SIMOTION V2.3 FULL LICENSE DCC FOR SIMOTION AND FOR SINAMICS OPTION FOR SCOUT V4.4 AND FOR STARTER V4.4 SUPPLIED ON DATA STORAGE MEDIUM DVD INCL: FLOATING LICENSE	6AU1810-1JA23-0XA0	▶ Operator control & monitoring ▶ Process Automation
1	SIMOTION IT COMPREHENSIVE IT FUNCTIONS WITH JAVA VIRTUAL MACHINE: RUNTIME ENVIRONMENT FOR JAVA APPLICATIONS ON SIMOTION LICENSE (COL) INCLUDES THE FOLLOWING LICENSES: SIMOTION IT DIAG: 6AU1820-8BA20-0AB0 SIMOTION IT OPC XML-DA: 6AU1820-8BB20-0AB0	6AU1820-8BD20-0AB0	▶ Industrial Communication ▶ Sensor Technology ▶ Drive Technology ▶ CNC Software ▶ PLM Software ▶ Important Notes

System requirements: 64 BIT: Windows 7 Professional, Ultimate SP1
32 BIT: Windows 7 Professional, Ultimate SP1

Sales note: Schools, colleges and universities, for in-house vocational training departments
Technical note: See slides below

Order number: 6SL3080-8LA00-0AA0

SIMOTION D410 add on for SINAMICS S120

Optional software and hardware

SIEMENS

SIMOTION ENGINEERING SYSTEM SCOUT STANDALONE SOFTWARE CARE SERVICE

6AU1810-0BA00-0XL0

SINAMICS TERMINAL MODULE CABINET **TM31** WITHOUT DRIVE-CLIQ CABLE ADD-ON MODULE FOR SINAMICS CONVERTERS WITH DIGITAL AND ANALOG INPUTS AND OUTPUTS

6SL3055-0AA00-3AA1

SIGNAL CABLE; DRIVE-CLIQ MOTION CONNECT 500 IP20/IP20 LENGTH 0.95 m

6SL3060-4AA10-0AA0

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Recommended accessories:

6XV1870-3RH60

SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CROSSED TP CABLE 4X2, PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 6 M

6GK1950-0BB00

Trainer Package: FASTCONNECT connection technology

Note: When selecting motors, please contact your local Siemens technical sales department

- **Overview**

- Download SinuTrain Operate V4.5/V4.7 - Basic

- SinuTrain Operate V4.7

- SinuTrain Operate Students Package V4.7

- SinuTrain Operate V4.5

- SinuTrain Operate Students Package V4.5

- SinuTrain Operate V4.4

- SinuTrain Operate Students Package V4.4

Download SinuTrain for SINUMERIK Operate V4.5/V4.7 – Basic

The SinuTrain offline programming station brings SINUMERIK Operate to the PC, including animated machine control panel, to create a training situation that is very similar to that in reality, thus facilitating easy transition from a training environment into a practical environment.

This powerful tool allows NC programs to be programmed offline at 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 Version V4.5/V4.7 Basic based on SINUMERIK CNC software V4.5/V4.7.

The control-identical NC programming station as a basic version with no time limit – are available here as a preview version: www.siemens.com/sinutrain-downloads

Sales and delivery release of SinuTrain for SINUMERIK Operate V4.5/V4.7 Basic, **see bottom right**



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ **CNC Software**
- ▶ PLM Software
- ▶ Important Notes

System requirements:	MS Windows 7 Home Basic, Home Premium, Professional, Ultimate, Enterprise (32-/64-Bit) MS Windows 8.1, MS Windows 8.1 Pro, Enterprise (32- / 64-Bit)
Sales note:	Schools, colleges and universities, not for in-house vocational training departments
Technischer Hinweis:	Basic-Version – with no time limit
Order number:	Download www.siemens.com/sinutrain-downloads
L price (without VAT):	For free

[↗ SinuTrain V4.5/V4.7](#)

Trainer Package – SinuTrain for SINUMERIK Operate V4.7

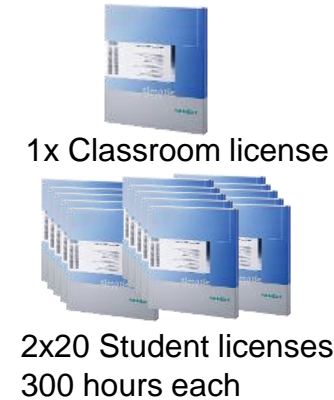
1 x SinuTrain **Trainer Package Classroom license** for **6 PCs**

2 x SinuTrain **Student Package** 6FC5870-1SC43-0YA0

SinuTrain for SINUMERIK OPERATE 4.7 is applicable for
SINUMERIK 840D SL, SINUMERIK 828D/828D BASIC with CNC SOFTWARE V4.7 SP2 HF1

SinuTrain V4.7 for in-house vocational training departments: **See bottom right**

Students



Training manuals
1x Easy milling with ShopMill
1x Easy turning with ShopTurn
1x First-Time User Instructions

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ **CNC Software**
- ▶ PLM Software
- ▶ Important Notes

System requirements:	MS Windows 7 Home Basic, Home Premium, Professional, Ultimate, Enterprise (32-/64-Bit) MS Windows 8.1, MS Windows 8.1 Pro, Enterprise (32-/64-Bit)
Sales note:	Schools, colleges and universities, not for in-house vocational training departments
Technical note:	None available
Order number:	6FC5870-1TC43-0YA0

Student package – SinuTrain for SINUMERIK Operate V4.7

SINUTRAIN for SINUMERIK OPERATE VERSION 4.7

20 STUDENT PACKAGE for 300 hours

SinuTrain for SINUMERIK OPERATE 4.7 is applicable for

SINUMERIK 840D SL, SINUMERIK 828D/828D BASIC with CNC-SOFTWARE V4.7 SP2 HF1

SinuTrain V4.7 for in-house vocational training departments: [See bottom right](#)

Students



20x Students versions
each 300 hours

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ **CNC Software**
- ▶ PLM Software
- ▶ Important Notes

System requirements:	MS Windows 7 Home Basic, Home Premium, Professional, Ultimate, Enterprise (32-/64-Bit) MS Windows 8.1, MS Windows 8.1 Pro, Enterprise (32-/64-Bit)
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	None available
Order number:	6FC5870-1SC43-0YA0

Trainer Package – SinuTrain for SINUMERIK Operate V4.5

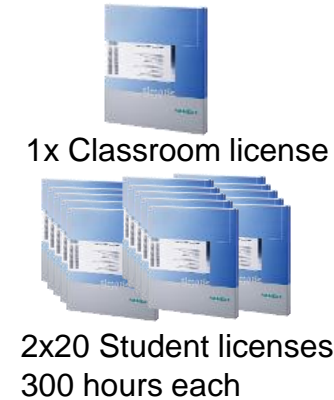
1 x SinuTrain **Trainer Package Classroom license** for **6 PCs**

2 x SinuTrain **Student Package** 6FC5870-1SC41-0YA0

SinuTrain for SINUMERIK OPERATE 4.5 is applicable for
SINUMERIK 840D SL, SINUMERIK 828D/828D BASIC with CNC SOFTWARE 4.5

SinuTrain V4.5 for in-house vocational training departments: **See bottom right**

Students



Training manuals
1x Easy milling with ShopMill
1x Easy turning with ShopTurn
1x First-Time User Instructions

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ **CNC Software**
- ▶ PLM Software
- ▶ Important Notes

System requirements:	64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1, WINDOWS XP Professional SP3
Sales note:	Schools, colleges and universities, not for in-house vocational training departments
Technical note:	None available
Order number:	6FC5870-1TC41-0YA0

Student package – SinuTrain for SINUMERIK Operate V4.5

SINUTRAIN for SINUMERIK OPERATE VERSION 4.5

20 STUDENT PACKAGE for 300 hours

SinuTrain for SINUMERIK OPERATE 4.5 is applicable for

SINUMERIK 840D SL, SINUMERIK 828D/828D BASIC with CNC-SOFTWARE 4.5

SinuTrain V4.5 for in-house vocational training departments: [See bottom right](#)

Students



20x Students versions
each 300 hours

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ **CNC Software**
- ▶ PLM Software
- ▶ Important Notes

System requirements:	64 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1, Windows XP Professional SP3
Sales note:	Schools, colleges and universities, for in-house vocational training departments
Technical note:	None available
Order number:	6FC5870-1SC41-0YA0

Trainer Package – SinuTrain for SINUMERIK Operate V4.4

1 x SinuTrain **Trainer Package Classroom license** for 16 PCs
 6FC5870-8YC40-2YA0

1 x SinuTrain **Student Package**
 6FC5870-1SC40-1YA0

SinuTrain for SINUMERIK OPERATE 4.4 is applicable for

- SINUMERIK 840D SL with SW V2.7 and V4.4
- SINUMERIK 828D/828D BASIC with SW V2.7 and V4.4

SinuTrain V4.4 for in-house vocational training departments: **See bottom right**

Students



Training manuals

- 1x Easy milling with ShopMill
- 1x Easy turning with ShopTurn
- 1x First-Time User Instructions

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ **CNC Software**
- ▶ PLM Software
- ▶ Important Notes

System requirements:	64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1, WINDOWS XP Professional SP3
Sales note:	Schools, colleges and universities, not for in-house vocational training departments
Technical note:	None available
Order number:	6FC5870-1TC40-1YA0

Student package – SinuTrain for SINUMERIK Operate V4.4

SINUMERIK 828D/828D BASIC WITH SW 2.7 AND 4.4
 SINUMERIK 840D SL WITH CNC SW 2.7 AND 4.4
 EDUCATION SW ON DVD
 SINUTRAIN FOR SINUMERIK OPERATE

Students



32x Student licenses
 300 hours each

SinuTrain FOR SINUMERIK OPERATE 4.4 IS APPLICABLE FOR

- SINUMERIK 840D SL WITH SW V2.7 AND V4.4
- SINUMERIK 828D/828D BASIC WITH SW V2.7 AND V4.4

SinuTrain V4.4 for in-house vocational training departments: **See bottom right**

- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ **CNC Software**
- ▶ PLM Software
- ▶ Important Notes

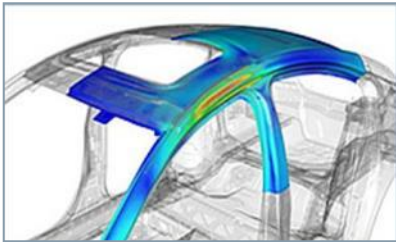
System requirements:	64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1, WINDOWS XP Professional SP3
Sales note:	Schools, colleges and universities, not for in-house vocational training departments!
Technical note:	None available
Order number:	6FC5870-1SC40-1YA0

[↗ SinuTrain V4.4](#)

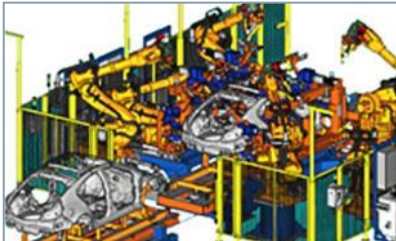
Siemens Product Lifecycle Management (PLM) Software

- **Overview**
- PLM Software

PLM Software



➤ [NX](#), with new tools and technologies, the latest release of NX delivers productivity throughout product development. See how NX can help you accelerate your design, engineering, and manufacturing processes.



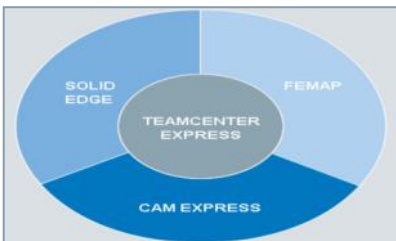
➤ [Tecatix](#), is a comprehensive portfolio of digital manufacturing solutions that deliver innovation by linking all manufacturing disciplines together with product engineering – from process layout and design, process simulation and validation, to manufacturing execution.



➤ [Teamcenter](#), helps you deliver increasingly complex products to market while maximizing productivity and streamlining global operations.

Velocity Series, Powerful and easy-to-use software tools for product development. Solid Edge, Femap, CAM Express and 3D Sync.

➤ [Solid Edge Highschool](#) ➤ [Solid Edge Students](#)



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- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
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- ▶ **PLM Software**
- ▶ Important Notes

- **Overview**
 - WorldSkills
 - Purchasing Remarks for SCE Trainer Packages

Partnership with WorldSkills for training on an industrial level

WorldSkills Competition – Best of Nations



WorldSkills (WS) promotes the **quality** of vocational education for > 60 years

WS competition of careers every 2 years with > 200,000 visitors:
... Leipzig 2013, São Paulo 2015, Abu Dhabi 2017, Kazan 2019 ...

Siemens has been a **Global Industry Partner** and a **Product Sponsor** since 2010 for Skill 19 Industrial Control, Skill 1 Polymechanics/Automation ...



Siemens supports the WS competition as well as selected continental/regional competitions

Purchasing Remarks of SCE Trainer Packages

For the purchasing of SCE Trainer Packages, a special additional agreement is required.

This agreement for SIMATIC Software for classroom use at research-, development- and education institutions,, has to be signed and send for release of the delivery to SCE Team global.

SCE Contact partner will find these at SCE Intranet: [↗ Additional Agreement](#)

Release for delivery

Trainer packages are released trough Siemens AG, SCE Team global

Contact Partner: **Christian Callegari** Fax: +49 (0)911-895-133928 and christian.callegari@siemens.com



- ▶ Industrial Controls
- ▶ Engineering Software
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Controller/PLC
- ▶ Distributed I/Os
- ▶ Operator control & monitoring
- ▶ Process Automation
- ▶ Industrial Communication
- ▶ Sensor Technology
- ▶ Drive Technology
- ▶ CNC Software
- ▶ PLM Software
- ▶ Important Notes

Exception: The following Trainer packages are not intended for vocational in-house training Departments.

SIMATIC S7 Software for Students

SinuTrain Operate

SinuTrain Operate for Students

Students [6ES7822-1AC04-4YA5](#)
[6FC5870-1T...](#)

Students [6FC5870-1S...](#)

Thank you for your attention!



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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