Siemens Automation Cooperates with Education (SCE)
Simplify your education in automation

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 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 three STEP 7 Trainer Packages, see page 139.

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 V13
- 12er Classroom license V13
- 12er Upgrade license V13
- Software for students
- Control with SIMATIC standard
- CFC 12er Classroom license
- CFC Student license
- IE Softnet 12x Classroom license

#### SIMATIC Controller
- ET 200SP Open Controller
- ET 200SP 1512SP F-1 PN
- S7-1513 PN / S7-1516 PN/DP
- S7-1516F PN/DP
- S7-314C-2PN/DP / S7-314C-2PN/DP (Upgrade)
- S7-315F-2PN/DP
- S7-300 Safety I/Os
- 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

#### 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 V13 Basic for S7-1200 Package

#### SIRIUS Industrial Controls
- SIMATIC HMI TP700 /TP1500 COMFORT PANEL
- WinCC V13 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

#### Operator Control & Monitoring
- Overview structure STEP 7 and HMI
- WinCC Advanced V13 / WinCC flexible 2008
- Software for students
- SIMATIC HMI TP700 /TP1500 COMFORT PANEL
- WinCC V13 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

#### Important Notes
- WorldSkills
- Purchasing Remarks

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* New / updated package  
* Package in preparation
Solution Partner demo case with SCE Trainer Packages

http://www.amatrol.com/

FESTO

intelitek
http://www.intelitek.com/

FutureTek, Inc.
"Real-World" Trainers using "Real-World" Equipment for "Real-World" Jobs
http://www.futuretekinc.com/
Overview

- Overview STEP 7 and SIMATIC HMI
- Single-user license
- 12er license and upgrade
- 12er 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

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

**S7 Controller**
School package with PROFINET and PROFIBUS

**Touch Panel**
TP700 / TP1500
PROFIBUS and PROFINET connection

**ET 200SP Open Controller**
ET 200SP …
School package with PROFINET
For PROFIBUS only interface has to be ordered separately.

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Digital Factory
**SIMATIC STEP 7 Professional – Software for Training**

**Single License**

1 x Combo license for interchangeable usage
- of: SIMATIC STEP 7 Professional V13 SP1*
  - STEP 7 Professional V13 SP1 *(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 V13 SP1*
- or: SIMATIC S7 Distributed Safety 5.4 SP5 Update 1

1 x SINAMICS Startdrive V13 SP1 * for SINAMICS G120 CONTROL UNIT CU240E-2, CU250S-2, as of Firmware V4.6

1 x SIMIT SIMULATION FRAMEWORK DEMO VERSION V8.1, see slide 27

**Licensees only for STEP 7 Professional 2010 SR4**
- 1 x SIMATIC S7-IMAP V3.0 SP3
- 1 x SIMATIC S7-Technology V4.2 SP4

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

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

**Technical note:**
- Authorization on USB stick (1 stick)

**Order number:**
- 6ES7822-1AA03-4YA5

**School Price:**
- $585
SIMATIC STEP 7 Professional – Software for Training
Quantity 12 Classroom Licenses + 60 1 year licenses

12 x Combo license for interchangeable usage
  of: SIMATIC STEP 7 Professional V13 SP1 *
  or:  SIMATIC STEP 7 Professional 2010 SR4

12 x Combo license for interchangeable usage
  of: SIMATIC STEP 7 Safety Advanced V13 SP1 *
  or: SIMATIC S7 Distributed Safety 5.4 SP5 Update 1

12 x SINAMICS Startdrive V13 SP1* for SINAMICS G120 CONTROL UNIT CU240E-2 CU250S-2, as of Firmware V4.6

1 x SIMIT SIMULATION FRAMEWORK DEMO VERSION V8.1, see slide 27

Licenses only for STEP 7 Professional 2010 SR4
12 x SIMATIC S7-IMAP V3.0 SP3
12 x SIMATIC S7-Technology V4.2 SP4

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

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

Sales note: Schools, colleges and universities, NOT for in-house vocational training departments

Technical note: Authorization on USB stick (1 stick + 3 sticks with 20 software for students each)

Order number:
6ES7822-1BA03-4YA5 Upgrade of STEP 7 Prof. < 2010 et. <V12: 6ES7822-1AA03-4YE5

School Price:
$4250 $1420

Overview | List | Graphic | Cabinet | TIA Portal

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SIMATIC STEP 7 Professional – Software for Training
12x Upgrade for in-house vocational training

12 x Combo license for interchangeable usage
  of: SIMATIC STEP 7 Professional V13 SP1 *
      STEP 7 Professional V13 SP1 *(LAD, FBD, STL), S7-GRAINH, S7-SCL, S7-PLCSIM
  or: SIMATIC STEP 7 Professional 2010 SR4
      STEP 7 V5.5 SP4 (LAD, FBD, STL) S7-GRAINH V5.3 SP7, S7-SCL V5.3 SP6,
      S7-PLCSIM V5.4 SP5

12 x Combo license for interchangeable usage
  of: SIMATIC STEP 7 Safety Advanced V13 SP1 *
  or: SIMATIC S7-Distributed Safety 5.4 SP5 Update 1

12 x SINAMICS Startdrive V13 SP1 * for SINAMICS G120 CONTROL UNIT CU240E-2, CU250S-2, as of Firmware V4.6
1 x SIMIT SIMULATION FRAMEWORK DEMO VERSION V8.1, see slide 28

Licenses only for STEP 7 Professional 2010 SR4
12 x SIMATIC S7-IMAP V3.0 SP3
12 x SIMATIC S7-Technology V4.2 SP4

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: 6ES7822-1BA03-4YE5 Upgrade of STEP 7 Prof. 2006,2010 and <V12
School Price: $1420

* V13: also 64 BIT Windows 8.1 Professional, Enterprise
SIMATIC STEP 7 Professional Software for students
Single-user license – limited to 365 days

20 x Combo license for interchangeable usage

of: SIMATIC STEP 7 Professional V13 SP1 *
STEP 7 Professional V13 SP1 *(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 V13 SP1 *
for SINAMICS G120 CONTROL UNIT CU240E-2; CU250S-2, as of Firmware V4.6

Software limited to 365 days through authorization

Package with:
5 * DVDs SIMATIC STEP 7 Professional 2010 SR4 , 5 * DVDs SIMATIC STEP 7 Professional V13 SP1 *
5 * DVDs SIMATIC STEP 7 Professional V13 SP1 *, 5 * PLCSIM V 13 SP1 *
5 * DVDs SIMATIC STEP 7 Basic V13 SP1 *, 5 * DVDs SINAMICS Startdrive V13 SP1 *

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:
6ES7822-1AC03-4YA5

School Price:
$270

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SIMATIC S7 PID Control with SIMATIC Standard and Modular

**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

**School Price:**
$1580
SIMATIC S7 PID Control with SIMATIC
Standard and Modular

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.
12 x SIMATIC CFC V8.0

3 x 20 Software for Students SIMATIC CFC V8.0
SW limited to 365 days through authorization
20 licenses per USB stick.

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:
6ES7658-1EX08-0YS5

School Price:
$2580
**SIMATIC CFC software for students**

**Single-user license – limited to 365 days**

- **20 x SIMATIC CFC V8.0**
  - SW limited to 365 days through authorization
  - 20 licenses per USB stick

**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:**
- 6ES7658-1EX08-0YS6

**School Price:**
- $290
**SIMATIC NET Software IE Softnet**  
**Quantity 12 Classroom Licenses**

<table>
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<tr>
<th>Quantity</th>
<th>12 X</th>
<th>6GK1704-1CW12-0AA0 SIMATIC NET IE SOFTNET-S7 V12</th>
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<tr>
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<td></td>
<td>2-LANGUAGES (G,E); FOR 32/64BIT: WIN 7 PROF/ULT,</td>
</tr>
<tr>
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<td></td>
<td>WINDOWS SERVER 2008 R2, SERVER 2012 FOR CP1612</td>
</tr>
</tbody>
</table>

**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

**School Price:**
$1,225

* V13: also 64 BIT Windows 8.1 Professional, Enterprise

**Check HW Compatibility for TIA Portal**

**Totally Integrated Automation PORTAL**

**Overview** | **List** | **Graphic** | **Cabinet** | **TIA Portal**

* Industrial Controls  
* Engineering Software  
* SIMIT Simulation  
* Basic Automation  
* Controller/PLC  
* Distributed IOs  
* Operator control & monitoring  
* Process Automation  
* Industrial Communication  
* Sensor Technology  
* Drive Technology  
* CNC Software  
* PLM Software  
* Important Notes
Virtual commissioning with SIMIT Simulation Framework

- **Overview**
  - SIMIT V8.1 Simulation Framework and Upgrade
  - SIMIT V8.1 Demo Version
SIMIT Simulation Framework V8.1

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

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 |

Restrictions of demo version have to be observed

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: 6DL5260-0XX18-0YS5

L price (without VAT) $2835

Currently not compatible with S7-1200/1500
SIMIT Simulation Framework V8.1 Demo Version

SIMIT 8.1 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

| 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:                | 6DL5260-0AX18-0YT8 (Demo Version) |
| L price (without VAT)        | $72 |

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:
6DL5260-0AX18-0YT8 (Demo Version)

L price (without VAT)
$72
SIMIT Simulation Framework V8.1, Demo Version
Application versions

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

Test of PLC user program

Educator (dongle owner):

Students (demo version without dongle):
SIMIT Simulation Framework V8.1, Demo Version
Application versions

SIMIT dongle A with SIMIT V8.1
Educators/Students:
Creation and exchange of SIMIT models

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

SIMIT dongle B with SCE V8.1
Educators/Students:
Created SIMIT models

Educators/Students:
Creation and exchange of SIMIT models with IO limits

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

SIMIT Simulation Framework V8.1, Demo Version
Application versions

SIMIT dongle A with SIMIT V8.1
Educators/Students:
Creation and exchange of SIMIT models

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

SIMIT dongle B with SCE V8.1
Educators/Students:
Created SIMIT models

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

SIMIT Simulation Framework V8.1, Demo Version
Application versions

SIMIT dongle A with SIMIT V8.1
Educators/Students:
Creation and exchange of SIMIT models

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

SIMIT dongle B with SCE V8.1
Educators/Students:
Created SIMIT models

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

SIMIT Simulation Framework V8.1, Demo Version
Application versions

SIMIT dongle A with SIMIT V8.1
Educators/Students:
Creation and exchange of SIMIT models

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

SIMIT dongle B with SCE V8.1
Educators/Students:
Created SIMIT models

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
Basic Automation

- **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 V13 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
6XY1870-3RH60
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

System requirements: WINXP, WIN7, WIN8 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
School Price: $1060
## SIMATIC Basic Panel KTP400 for LOGO! ETHERNET 1 PACK

**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  
6AV2123-2DB03-0AX0

**1 X** SCALANCE XB005UNMANAGED 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  
6GK5005-0BA00-1AB2

**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  
6XV1870-3RH60

**1 X** SIMATIC WINCC BASIC V13 SP1 ENGINEERING SW, FLOATING LICENSE SW AND DOCUMENTATION ON DVD, FOR CONFIGURATION OF SIMATIC BASIC PANELS  
6AV2100-0AA03-0AA5

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**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

**School Price:**
- $330
### SIMATIC Basic Panel KTP400 for LOGO! ETHERNET 6 PACK

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>SIMATIC HMI KTP400 BASIC COLOR PN, BASIC PANEL, KEY AND TOUCH OPERATION, 4&quot; TFT DISPLAY, 65536 COLORS, PROFINET INTERFACE, CONFIGURATION FROM WINCC BASIC V13/STEP 7 BASIC V13.</td>
<td>6AV2123-2DB03-0AX0</td>
</tr>
<tr>
<td>6</td>
<td>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</td>
<td>6GK5005-0BA00-1AB2</td>
</tr>
<tr>
<td>12</td>
<td>SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6, CROSSED TP CABLE 4X2, PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 6 M</td>
<td>6XV1870-3RH60</td>
</tr>
<tr>
<td>6</td>
<td>SIMATIC WINCC BASIC V13 SP1 ENGINEERING SW, FLOATING LICENSE SW AND DOCUMENTATION ON DVD, FOR CONFIGURATION OF SIMATIC BASIC PANELS</td>
<td>6AV2100-0AA03-0AA5</td>
</tr>
</tbody>
</table>

**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

**School Price:** $1870
SIMATIC Basic Panel KTP400 for LOGO! ETHERNET

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

SCALANCE
XB005
6GK5005-0BA00-1AB2

SIMATIC WINCC BASIC V13 SP1
ENGINEERING SW
6AV2100-0AA03-0AA5

ETHERNET cable
6XV1870-3RH60

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

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

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

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

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

6 X SIMATIC S7, STEP 7 BASIC V13 SP1 SINGLE LICENSE, E-SW, SW AND DOCU. ON DVD, CLASS A, LICENSE KEY ON USB STICK, 2 LANGUAGES (GE,EN), REFERENCE HW: S7-1200

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

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

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

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 (CHOOSE AC OR DC INPUT) DC/DC/DC
School Price: $1945

6ES7214-1BG40-0XB0
6ES7214-1AG40-0XB0
6ES7822-0AA03-0YA5
6XV1870-3RH60
6ES7274-1XF30-0XA0
6ES7232-4HA30-0XB0

6ES7214-1BE30-4AB3
6ES7214-1AE30-4AB3
6ES7822-0AA03-0YA5
6ES7274-1XF30-0XA0
6ES7232-4HA30-0XB0
SIMATIC S7-1200 AC/DC/RELAY 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 V13 SP1
  6ES7822-0AA03-0YA5

- ETHERNET cable
  6XV1870-3RH60

- TIA Portal
### SIMATIC Basic Panel KTP700 quantity 1

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 X</td>
<td>SIMATIC HMI, KTP700 BASIC, BASIC PANEL, KEY AND TOUCH OPERATION, 7&quot; TFT DISPLAY, 65536 COLORS, PROFINET INTERFACE, CONFIGURATION FROM WINCC BASIC V13/STEP 7 BASIC V13</td>
<td>6AV2123-2GB03-0AX0</td>
</tr>
<tr>
<td>1 X</td>
<td>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</td>
<td>6GK5005-0BA00-1AB2</td>
</tr>
<tr>
<td>2 X</td>
<td>SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6, CROSSED TP CABLE 4X2, PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 6 M</td>
<td>6XV1870-3RH60</td>
</tr>
</tbody>
</table>

**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
- **School Price:** $450
### SIMATIC Basic Panel KTP700 Quantity 6

**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

**6 AV2123-2GB03-0AX0**

**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**

**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**

---

**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

**School Price:**
- $2130
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 6AV2123-2GB03-0AA0 contains 6 x
Package 6AV2123-2GB03-0AA1 contains 2 x
Package 6AV2123-2GB03-0AA0 contains 12 x

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

6 x STEP 7 Basic V13 SP1 Upgrade Version V10.5/ V11 /V12 to V13 SP1
SIMATIC STEP 7 BASIC V13 SP1 TRAINER PACKAGE UPGRADE V13 SP1
ENGINEERING SOFTWARE; UPGRADE FOR 6 V10.5/V11/V12
SINGLE FLOATING-> V13 SP1 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 V13 SP1 for SINAMICS G120 CONTROL UNIT CU240E-2 , CU250S-2, as of Firmware V4.6

Package with:
2 * DVDs SIMATIC STEP 7 Basic V13 SP1, 2 * PLCSIM V13 SP1, 2 * DVDs SINAMICS Startdrive V13 SP1

For Hardware Package S7-1200, see slide 36 and Basic Panel KTP400, see slide 33, 34 and Basic Panel KTP700, see slide 38, 39

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: 6ES7822-0AA03-4YE5
School Price: $190

Overview | List | Graphic | Cabinet | TIA Portal
SIMATIC STEP 7 S7-1200 Fully Assembled Simulator Workstation

The SIMATIC S7-1200 training simulator is a fully assembled system ready to plug and play. This unit is great for training, program testing and line troubleshooting. This unit includes the following:

- S7-1200 Power Supply
- Ethernet Switch CSM 1277
- CPU1214
- Analog output SB1234, Analog in / out SM 1234, Digital in / out SM1223
- Basic Panel KTP600
- 16 Input switches, 16 Output Leds
- 2 potentiometers (Analog in)
- Digital Volt Meter
- Interface for conveyor model (conveyor sold separately, part 6ZB23100AP00P)

System requirements: Windows XP SP3, Windows 7 (32 Bit)
Sales note: For vocational school, Colleges and Universities, in-house vocational training departments, non commercial research institutions and non commercial training departments!

Order number: 6ZB23100CG00
School price: $7,990
The Conveyor Belt Model is a simulator providing a real world flavor. It comes complete with 3 proximity sensors, light barrier, forward-reverse belt (motor), 3 push button switches, buzzer, power indicator and stop/start push button. This is an excellent and fun model for hands-on learning with unlimited application options.

System requirements: Windows XP SP3, Windows 7 (32 Bit)

Sales note: For vocational school, Colleges and Universities, in-house vocational training departments, non commercial research institutions and non commercial training departments!

Order number: Conveyor: 6ZB2310-0AP00  Conveyor Cable: 6ZB23100AL00

School price: $1,905  $162
### SIMATIC S7-1200 Component Options

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>List Price</th>
<th>School Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>S7-1200 Power Supply Module</td>
<td>6EP13321SH71</td>
<td>$123.00</td>
<td>$61.50 each</td>
</tr>
<tr>
<td>Suggested for S7-1200 DC/DC/DC CPU selection – 110VAC to 24VDC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Micro Memory Card – 2M</td>
<td>6ES79548LF010AA0</td>
<td>$315.00</td>
<td>$157.50</td>
</tr>
<tr>
<td>Suggested for program copy, reloads, firmware upgrades and extended memory (not required)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Din Rail 19” (483 mm)</td>
<td>6ES57108MA11</td>
<td>$42.00</td>
<td>$21.00</td>
</tr>
<tr>
<td>S7-1200 Mounting rail (unit can also be screw mounted) additional rail lengths available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTD input Signal Board</td>
<td>6ES72315PA300XB0</td>
<td>$94.00</td>
<td>$47.00</td>
</tr>
<tr>
<td>Pair with a 100 Ohm RTD for a simple analog input signal (Omega #PR-11-1-100-1/4-12-E example)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Controller

Distributed Controller

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

Advanced Controller

• S7-1516F PN/DP
• S7-1516 PN/DP
• S7-1516 PN/DP
• S7-1513 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

In-house training
Public schools

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

1 X STANDARD MOUNTING RAIL, LENGTH: 483 mm, FOR 19” CABINETS
6ES7677-2AA41-0FL0

1 X SIMATIC ET 200SP OPEN CONTROLLER, CPU 1515SP PC + HMI 512PT, 4 GB RAM, 16 GB CFAST WIND, EMBEDDED STANDARD 7 P 64BIT PREINSTALL., W. S7-1500 SW CONTROLLER CPU 1505S V1.0 PREINSTALLED, WITH WINCC RUNTIME ADVANCED V13 SP1 PREINSTALLED WITH 512 POWERTAGS LICENSE, INTERFACES: 1X SLOT CFAST, 1X SLOT SD/MMC, 1X PLUG F. ET 200SP BUS- ADAPTOR PROFINET, 1X 10/100/1000 MBIT/S ETHERNET, 3 X USB, 1 X DVI-I GRAPHIC INTERFACE, DOCU DVD
6ES7954-8LF02-0AA0

1 X SIMATIC S7, MEMORY CARD FOR S7-1X00 CPU/SINAMICS, 3,3 V FLASH, 24 MBYTE
6ES7132-6BF00-0CA0

2 X DI 8x24VDC/0,5A HF
6ES7131-6BF00-0CA0

2 X DQ 8x24VDC/0,5A HF
6ES7193-6AR00-0AA0

1 X Bus adapter 2X RJ45
6ES7193-6BP00-0DA0

4 X BU type A0, push-in, 2 infeed terminal separated (digital/analog, max. 24VDC/10A
6ES7193-6CP01-2MA0

1 X Color-coded labels 16 process terminals, gray/red, CC01, 10 units
6ES7193-6LA10-0AA0

1 X 1000 Color-coded labels, light gray, 10 sheets DIN A4, perforated, paper
6ES7193-6CP02-2MA0

1 X Color-coded labels, 16 process terminals, gray/blue, CC02, 10 units
6XV1870-3RH60

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
6ES7806-2CD00-0YA0

1 SIMATIC ODK 1500S V1 SINGLE LICENSE F. 1 INSTALL., E-SW, SW AND DOCU. ON DVD, CLASS A, 2
6ES7806-2CA00-0YA0

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 V13 SP1 required

Order number:
6ES7677-2AA41-4AB1

School Price: $2085
ET 200SP Open Controller
CPU 1515SP PC with S7-1500 SW controller + HMI 512PT WinCC Runtime Adv.

Overview
List
Graphic
Cabinet
TIA Portal

1 x ET 200SP Open 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 SIMATIC ODK 1500S V1 SINGLE LICENSE

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

6ES7193-6BP00-0BD0
BASEUNIT

6ES7193-6SC00-1AM0
5 SHIELDING TERMINALS

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

NOTE: SIMATIC STEP 7 Professional ≥ V13 SP1 is absolutely necessary for configuration
ET 200SP Distributed Controller
CPU 1512SP F-1 PN

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

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

<table>
<thead>
<tr>
<th>System requirements:</th>
<th>64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1, Windows 8.1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1</td>
</tr>
<tr>
<td>Sales note:</td>
<td>Schools, colleges and universities, for in-house vocational training departments</td>
</tr>
<tr>
<td>Technical note:</td>
<td>SIMATIC STEP 7 Professional and Safety Advanced V13 SP1 necessary</td>
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<tr>
<td>Order number:</td>
<td>6ES75121SK004AB2</td>
</tr>
<tr>
<td>School Price:</td>
<td>$1200</td>
</tr>
</tbody>
</table>
ET 200SP Distributed Controller
CPU 1512SP F-1 PN

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

6ES7193-6BP00-0BD0
BASEUNIT

6ES7193-6SC00-1AM0
5 SHIELDING TERMINALS

3RK7137-6SA00-0BC1
COMMUNICATION MODULE AS-I MASTER

6ES7193-6BP20-0DC0
BASEUNIT

6ES7193-6BA00-0DA0
BASEUNIT

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

6ES7193-6BP00-0DA0
BASEUNIT

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

6GK1950-0BB00
Trainer Package: FASTCONNECT connection technology

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

### 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 necessary

### Order number:
- 6ES7516-3FN00-4AB1

### School Price:
$3075

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**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

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

1 X SIMATIC S7-1500, DIGITAL INPUT MODULE DI32 X DC24V, 32 CHANNELS IN GROUPS OF 16;

1 X SIMATIC S7-1500, DIGITAL OUTPUT MODULE DQ 32 X 24VDC/0.5A; 32 CHANNELS

1 X SIMATIC S7-1500, ANALOG INPUT MODULE AI 8 X U/I/RTD/TC, 16 BITS OF RESOLUTION,
- ACCURACY 0.3 %; 8 CHANNELS

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;

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

1 X SIMATIC S7-1500, PROFILSCHIENE 482 MM

1 X SIMATIC S7, MEMORY CARD FOR S7-1X00 CPU/SINAMICS, 3.3 V FLASH, 24 MBYTE

4 X SIMATIC S7-1500, FRONTCONNECTOR SCREW-TYPE, 40PIN, FOR 35MM WIDE MODULES

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

---

**System requirements:**
- 64 BIT: WINDOWS 7 Professional, Enterprise, Ultimate SP1, Windows 8.1
- 32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1

**Technical note:**
SIMATIC STEP 7 Professional necessary

**Order number:**
- 6ES7516-3FN00-4AB1

**School Price:**
$3075
SIMATIC S7-1516F PN/DP

1x CPU 1516F PN/DP
1x DIGITAL INPUT MODULE DI 32 X DC24V
4x Front Connector 40-Pole
4x Memory Card 24 MB

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 ETHERNET Cable
1x SIMATIC S7-1500, MOUNTING RAIL 482 MM

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

NOTE: SIMATIC STEP 7 Professional and Safety Advanced ≥ V13 is absolutely necessary for configuration
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
6ES7516-3AN00-0AB0

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

1 X SIMATIC S7-1500, DIGITAL INPUT MODULE DI32 X DC24V, 32 CHANNELS IN GROUPS OF 16;
6ES7521-1BL00-0AB0
6ES7522-1BL00-0AB0
6ES7531-7KF00-0AB0

1 X SIMATIC S7-1500, DIGITAL OUTPUT MODULE DQ 32 X 24VDC/0.5A; 32 CHANNELS

1 X SIMATIC S7-1500, ANALOG INPUT MODULE AI 8 X U/I/RTD/TC, 16 BITS OF RESOLUTION,
ACCURACY 0.3 %; 8 CHANNELS 6ES7532-5HD00-0AB0

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; 6ES7590-1AE80-0AA0

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

1 X SIMATIC S7, MEMORY CARD FOR S7-1X00 CPU/SINAMICS, 3,3 V FLASH, 24 MBYTE
6ES7954-8LF01-0AA0

4 X SIMATIC S7-1500, FRONTCONNECTOR SCREW-TYPE, 40PIN, FOR 35MM WIDE MODULES
6ES7592-1AM00-0XB0

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

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 V12 SP1 necessary

Order number:
6ES7516-3AN00-0AB3

School Price:
$2185
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

Available until Dec. 31, 2015

For engineering SIMATIC STEP 7 Professional ≥ V12 SP1 is absolutely necessary
### System Requirements:

<table>
<thead>
<tr>
<th>Item</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIMATIC PM 1507 24 V/8 A Stabilized Power Supply</td>
<td>6EP1333-4BA00</td>
</tr>
<tr>
<td>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</td>
<td>6ES7516-3AN00-0AB0</td>
</tr>
<tr>
<td>SIMATIC S7-1500, Digital Input Module DI32 X DC24V, 32 Channels In Groups Of 16</td>
<td>6ES7521-1BL00-0AB0</td>
</tr>
<tr>
<td>SIMATIC S7-1500, Digital Output Module DQ 32 X 24VDC/0.5A, 32 Channels</td>
<td>6ES7522-1BL00-0AB0</td>
</tr>
<tr>
<td>SIMATIC S7-1500, Analog Input Module AI 8 X U/I/RTD/TC, 16 Bits Of Resolution, Accuracy 0.3 %; 8 Channels</td>
<td>6ES7531-7KF00-0AB0</td>
</tr>
<tr>
<td>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</td>
<td>6ES7532-5HD00-0AB0</td>
</tr>
<tr>
<td>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</td>
<td>6ES7590-1AE00-0AA0</td>
</tr>
<tr>
<td>SIMATIC S7, Memory Card For S7-1X00 CPU/SINAMICS, 3,3 V Flash, 24 MByte</td>
<td>6ES7954-8LF01-0AA0</td>
</tr>
<tr>
<td>SIMATIC S7-1500, Frontconnector Screw-Type, 40Pin, For 35MM Wide Modules</td>
<td>6ES7592-1AM00-0XB0</td>
</tr>
<tr>
<td>SIMATIC NET Industrial Ethernet TP XP Cord RJ45/RJ45, Cat 6, Crossed TP Cable 4X2, Preassembled W. 2 RJ45 Connectors, Length 6 M</td>
<td>6XV1870-3RH60</td>
</tr>
<tr>
<td>SIMATIC STEP 7 Professional – Software For Training 1er Lizenz</td>
<td>6ES7822-1AA03-4YA5</td>
</tr>
</tbody>
</table>

Sales note: Schools, colleges and universities, not for in-house vocational training departments

Technical note: SIMATIC STEP 7 Professional of as V12 SP1 necessary

Order number: 6ES7516-3AN00-4AB3

School Price: $2185
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, Rail 480 MM

STEP 7 Professional SW for Training 1er License

For engineering SIMATIC STEP 7 Professional ≥ V12 SP1 is absolutely necessary

Available until Dec. 31, 2015
**SIMATIC S7-1513 PN**

1 X SIMATIC PM 1507 24 V/8 A STABILIZED POWER SUPPLY FOR SIMATIC S7-1500 INPUT: 120/230 V AC 24 V/8 A DC 6EP1333-4BA00

1 X SIMATIC S7-1500, CPU 1513-1 PN, CENTRAL PROCESSING UNIT WITH WORKING MEMORY 300 KB FOR PROGRAM AND 1.5 MB FOR DATA, 1. INTERFACE, PROFINET IRT WITH 2 PORT SWITCH, 40 NS BIT-PERFORMANCE, SIMATIC MEMORY CARD NECESSARY 6ES7513-1AL00-0AB0

1 X SIMATIC S7-1500, DIGITAL INPUT MODULE DI32 X DC24V, 32 CHANNELS IN GROUPS OF 16; INPUT DELAY 0.05... 20MS; INPUT TYPE 3 (IEC 61131); DIAGNOSIS, PROCESSALARMS 6ES7521-1BL00-0AB0

1 X SIMATIC S7-1500, DIGITAL OUTPUT MODULE DO 32 X 24VDC/0.5A; 32 CHANNELS IN GROUPS OF 8, 4 A PER GROUP; DIAGNOSIS; SUBSTITUTE VALUE 6ES7522-1BL00-0AB0

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

2 X SIMATIC S7-1500, FRONTCONNECTOR SCREW-TYPE, 40PIN, FOR 35MM WIDE MODULES, INCL. 4 JUMPERS, AND CABLE STRAP 6ES7592-1AM00-0XB0

1 X SIMATIC S7, MEMORY CARD FOR S7-1X00 CPU/SINAMICS, 3,3 V FLASH, 24 MBYTE 6ES7954-8LF01-0AA0

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

**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 V12 SP1 necessary

**Order number:**
6ES7513-1AL00-4AB0

**School Price:**
$1765
SIMATIC S7-1513 PN

1x CPU 1513-1 PN
1x DIGITAL INPUT MODULE DI 32 X DC24V
1x DIGITAL OUTPUT MODULE DQ 32 X DC24V / 0.5A
1x SIMATIC S7-1500, MOUTING RAIL 482 MM
1x ETHERNET cable

1x Power Supply
Input AC 120/230V; Output.: DC 24V, 8A
2x Front Connector 40-Polle
1x Memory Card 24 MB

For engineering SIMATIC STEP 7 Professional ≥ V12 SP1 is absolutely necessary

Recommended accessories:
If analog or PROFIBUS IO is required:
Package 6ES7516-3AN00-4ABx (SIMATIC S7-1516 PN/DP), see slide 67, 69, 71, 73, 75 or 76.

Available until Dec. 31, 2015
**SIMATIC S7-314C-2 PN/DP**

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

1 x SIMATIC S7-300 PS307 IN:120/230 V AC OUT: 24 V DC/5 A

2 x SIMATIC S7-300, FRONT CONNECTOR 392 WITH SCREW CONTACTS, 40-POLE

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

1 x SIMATIC S7-300, RAIL L=480MM

1 x SIMATIC S7, MICRO MEMORY CARD FOR S7-300/C7/ET 200S IM151 CPU, 3.3 V NFLASH, 512 KBYTES

1 x SIMATIC S7, PC ADAPTER USB A2 FOR CONNECTION OF S7-200/300/400 C7; WITH USB-CABLE (5M)

**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 required

**Order number:**

6ES7314-6EH04-4AB3

**School Price:**

$1765

---

Available until Dec. 31, 2015
**SIMATIC S7-314C-2 PN/DP**

- 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
- 1x Rail L=480mm
- PC Adapter USB
- Available until Dec. 31, 2015
SIMATIC S7-314C-2 PN/DP
Upgrade Package for TIA Portal

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

1 X SIMATIC S7, MICRO MEMORY CARD FOR S7-300, 3.3 V NFLASH, 512 KBYTES

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

3 X SIMATIC S7-300, FRONT CONNECTOR 392 WITH SCREW CONTACTS, 40-POLE

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

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 required

Order number:
6ES7314-6EH04-4AB4

School Price:
$880

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 required

Order number:
6ES7314-6EH04-4AB4

School Price:
$880
# SIMATIC S7-314C-2 PN/DP Upgrade Package for TIA Portal

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1x CPU314C-2 PN/DP</td>
<td>with 192 KByte memory</td>
</tr>
<tr>
<td>1x Digital Modul SM 323</td>
<td>16 DI and 16 DO, DC 24V, 0.5A, 40 POLE</td>
</tr>
<tr>
<td>1x Micro Memory Card 512 KByte</td>
<td></td>
</tr>
<tr>
<td>3x FRONT CONNECTOR</td>
<td>for SM, 40-Pole</td>
</tr>
<tr>
<td>ETHERNET-cable</td>
<td>6XV1870-3RH60</td>
</tr>
</tbody>
</table>
**SIMATIC S7-315F-2 PN/DP – PROFINET**

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

**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 required

**Order number:**
6ES7315-2FH14-4AB1

**School Price:**
$3095

**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

Recommended accessory:

**Optional accessory:**

**6GK1950-0BB00**
SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD
RJ45/RJ45, CROSSED TP CABLE 4X2, PREASSEMBLED
WITH 2 RJ45 CONNECTORS, LENGTH 6 M

**Available until Dec. 31, 2015**

**Order number:**
- 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

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

**Available until Dec. 31, 2015**
SIMATIC S7-315F-2 PN/DP – PROFINET

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

Recommended accessory:
6XV1950-0BB00
SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CROSSED TP CABLE 4X2, PREASSEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 6 M

Trainer Package:
6GK1950-0BB00
FASTCONNECT Accessories Kit

Available until Dec. 31, 2015
SIMATIC S7-300 F-Technology
Safety In-/Output Module

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

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
School Price: $1765

Available until Dec. 31, 2015

Complementary to: Trainer Package S7-mEC – modular Embedded: 6ES7677-1FD00-4AB1 / CPU315F-2 PN/DP: 6ES7315-2FH14-4AB1
SIMATIC S7-300 F-Technology

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

Available until Dec. 31, 2015
SIMATIC S7-315T Technology-PLC
Motion Control

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

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

School Price:
$2385
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

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
SIMATIC WinAC RTX F 2010 PC-based Control

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

Available until Dec. 31, 2015

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 required
Order number: 6ES7671-1RC08-0YS0
School Price: $1330
Distributed IOs

- **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 200 SP

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

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 required
Order number: 6ES7155-6AU00-0AB0
School Price: $670
SIMATIC ET 200 SP

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

Recommended accessories:
6XV1870-3RH60
SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD
RJ45/RJ45, CROSSED TP CABLE 4X2,
PRESSEMBLED WITH 2 RJ45 CONNECTORS,
LENGTH 6 M
6GK1950-0BB00
Trainer Package: FASTCONNECT connection technology

In Preparation
## SIMATIC ET 200 SP with AS-i Master communication module

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 X Standard mounting rail. 35mm, length 483 mm, for 19” cabinets</td>
<td>6ES5710-8MA11</td>
</tr>
<tr>
<td>1 X IM155-6PN HF including server module</td>
<td>6ES7155-6AU00-0CN0</td>
</tr>
<tr>
<td>2 X DI 8x24VDC/0.5A HF</td>
<td>6ES7131-6BF00-0CA0</td>
</tr>
<tr>
<td>2 X DQ 8x24VDC/0.5A HF</td>
<td>6ES7132-6BF00-0CA0</td>
</tr>
<tr>
<td>1 X BU adapter 2xRJ45</td>
<td>6ES7193-6AR00-0AA0</td>
</tr>
<tr>
<td>4 X BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog max 24VDC/10A)</td>
<td>6ES7193-6BP00-0DA0</td>
</tr>
<tr>
<td>1 X Color-coded labels 16 process terminals, gray/red, CC01, 10 units</td>
<td>6ES7193-6CP01-2MA0</td>
</tr>
<tr>
<td>1 X 1000 labeling strips, light gray, 10 sheets DIN A4, perforated, paper</td>
<td>6ES7193-6LA10-0AA0</td>
</tr>
<tr>
<td>1 X Color-coded labels 16 process terminals, gray/blue, CC02, 10 units</td>
<td>6ES7193-6CP02-2MA0</td>
</tr>
<tr>
<td>1 X CM AS-i MASTER ST ET 200SP (AS-i V3.0)</td>
<td>3RK7137-6SA00-0BC1</td>
</tr>
<tr>
<td>1 X BU type C0, BU20-P6+A2+4D</td>
<td>6ES7193-6BP20-0DC0</td>
</tr>
</tbody>
</table>

### 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 required

- **Order number:** 6ES7155-6AU00-0AB3

- **School Price:** $1270
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, PREASEMBLED WITH 2 RJ45 CONNECTORS, LENGTH 6 M

6GK1950-0BB00
Trainer Package: FASTCONNECT connection technology
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 BI 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

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 required
Order number: 6ES7155-6AU00-0AB1
School Price: $970
SIMATIC ET 200SP with Energy Meter input module

**Overview**

- **1x IM 155-6 PN HF incl. server module**
- **1x IM 155-6 PN HF incl. server module**
- **Bus adapter**
- **2x DI 8x24VDC/0.5A HF**
- **2x DI 8x24VDC/0.5A HF**
- **2x DQ 8x24VDC/0.5A HF**
- **4x Base Units**
- **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 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

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 required
Order number: 6ES7155-6AU00-0AB2
School Price: $970
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 DO 8x24VDC/0.5A HF
4 X Base Units
Color-coded labels
Labeling strips

1x 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

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 required

Order number:
6ES7155-6AU00-0AB6

School Price:
$705
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

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 required

Order number:
6ES7136-6BA00-0AB1

School Price:
$760
Operator control & monitoring

• Overview
  • Overview STEP 7 and HMI
  • WinCC Advanced V13/WinCC flexible 2008 SP3
  • WinCC Advanced V13/WinCC flexible 2008 SP3 Software for students
  • SIMATIC HMI TP700/TP1500 COMFORT PANEL
  • WinCC/Web Navigator V13 Professional
  • SIMATIC WinCC V7.3
  • SIMATIC WinCC/Web Navigator V7.3 – Diagnostics
  • SIMATIC WinCC/Web Navig. V7.3 – ASIA, Diagnostics
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

ETHERNET connection for Engineering

ETHERNET connection for Engineering

PROFINET

PROFIBUS

PROFIBUS and PROFINET connection
SIMATIC WinCC Advanced V13 / WinCC flexible 2008 SP3
Quantity 6 Classroom License

6 x Combo-license for freely interchangeable usage of Engineering SW
of: SIMATIC WinCC Advanced V13 SP1 *
or: SIMATIC WinCC flexible 2008 SP3

6 x Option and Runtime software, see slide 80

Additionally included in the package 6AV2102-0AA03-0AS5:
2 x 20 SIMATIC WinCC Advanced V13 SP1 */WinCC flexible 2008 SP3 for Students, see slide 81
Software is limited to 365 days through authorization

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 to Advanced V13
Order number: 6AV2102-0AA03-0AS5 6AV6613-1XA01-3CS0 6AV2102-4AA03-0AS5
School Price: $960 $220 $220

* V13: also 64 BIT Windows 8.1 Professional, Enterprise
SIMATIC WinCC Advanced V13 SP1 / WinCC flexible 2008 SP3 Option and Runtime Software

WinCC Advanced V13 SP1
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
20 x Combo-license for interchangeable usage the Engineering SW
of: SIMATIC WinCC Advanced V13 SP1*
or: SIMATIC WinCC flexible 2008 SP3

Licences limited to 365 days through authorization

Runtime Licences:
20 x SIMATIC WinCC RT Advanced V13 SP1 * -128 PowerTags
20 x SIMATIC WinCC flexible 2008 Runtime SP3 - 128 PowerTags

Software is limited to 365 days through authorization

Package with:
10 * DVDs WinCC Advanced V13 SP1 and
10 * DVDs SIMATIC WinCC flexible 2008 SP3

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: 6AV2102-0AA03-0AS7

School Price: $165

* V13: also 64 BIT Windows 8.1 Professional, Enterprise
SIMATIC HMI TP700 / TP1500 COMFORT, COMFORT PANEL with PROFINET and MPI/PROFIBUS DP INTERFACE

alternative:
1 x 7” SIMATIC HMI TP700 COMFORT, Touch Panel with PROFINET and MPI/PROFIBUS DP INTERFACE (Panel with integrated switch for 2 x RJ 45 ports)
6AV2124-0GC01-0AX0

alternative:
1 x 15” SIMATIC HMI TP1500 COMFORT, Touch Panel with PROFINET and MPI/PROFIBUS DP INTERFACE (Panel with integrated switch for 2 x RJ 45 ports)
6AV2124-0QC02-0AX0

Additionally the package contains
- 1 x Engineering, Option and Runtime software SW and license SIMATIC WinCC Advanced V13 SP1, see slide 79
- 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

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

School Price:
$550
$1210
# SIMATIC WinCC/Web Navigator V13 SP1 Professional Classroom License

**WinCC/Web Navigator V13 SP1 Professional**

<table>
<thead>
<tr>
<th></th>
<th>6 x WinCC V13 SP1, version RC 4096 variables</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6 x WinCC/Web Navigator Diagnostics Server V13 SP1</td>
</tr>
<tr>
<td></td>
<td>6 x WinCC/Web Navigator Diagnostics Client V13 SP1</td>
</tr>
</tbody>
</table>

**System requirements:**

<table>
<thead>
<tr>
<th></th>
<th>64 BIT: Windows 7 Professional, Enterprise, Ultimate SP1. Windows 8.1 Professional, Enterprise</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>32 BIT: Windows 7 Professional, Enterprise, Ultimate SP1</td>
</tr>
</tbody>
</table>

**Sales note:**

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

**Technical note:**

Authorization on USB stick

**Order number:**

6AV2105-0HA03-0AS0

**School Price:**

1,647.00 EUR
SIMATIC WinCC V7.3 SE Update 1
Classroom License

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

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
School Price: 1,449.00 EUR
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

### WinCC/Web Navigator V7.3 SE Update 1
- 6 x WinCC V7.3 SE Update 1
- 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

### 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

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

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

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

School Price:
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
Process Automation

- 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
Quantity 3 License/Upgrade

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

Recommended accessories if only DVDs with version 8.1 available

6ES7658-4XX18-0YT8
SIMATIC PCS 7, SOFTWARE MEDIA PACKAGE V8.1
DATA STORAGE MEDIUM WITHOUT LICENSE

6ES7650-4XX08-0YT8
SIMATIC PCS 7, SOFTWARE SUPPORT PACKAGE V8.x
DATA STORAGE MEDIUM WITHOUT LICENSE

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: 6ES7650-0XX08-0YS5 Upgrade: 6ES7650-0XX08-0YE5 from V7.1 to V8.0
6ES7650-0XX18-0YE5 from V8.0 to V8.1
School Price: $4805 from V7.1 to V8.0
6ES7650-4XX08-0YT8 from V8.0 to V8.1
Process control system SIMATIC PCS 7
Quantity 6 License

Equivalent to 2 x SIMATIC PCS 7 – 3er license, siehe Folie 88

Recommended accessories if only DVDs with version 8.1 available

**6ES7658-4XX18-0YT8**
SIMATIC PCS 7, SOFTWARE MEDIA PACKAGE V8.1
DATA STORAGE MEDIUM WITHOUT LICENSE

**6ES7650-4XX08-0YT8**
SIMATIC PCS 7, SOFTWARE SUPPORT PACKAGE V8.x
DATA STORAGE MEDIUM WITHOUT LICENSE

<table>
<thead>
<tr>
<th>System requirements:</th>
<th>Windows 7 SP1 Ultimate/Enterprise (32- or 64-bit) Windows Server 2008 R2 SP1 Standard Edition (64-bit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales note:</td>
<td>Schools, colleges and universities, for in-house vocational training departments</td>
</tr>
<tr>
<td>Technical note:</td>
<td>Authorization on USB stick</td>
</tr>
<tr>
<td>Order number:</td>
<td>6ES7650-0XX17-2YS5</td>
</tr>
<tr>
<td>School Price:</td>
<td>$6050</td>
</tr>
</tbody>
</table>
Process control system SIMATIC PCS 7 AS RTX Box

Hardware

- 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 Bus

Content: see slide 91, 92

Note:
- PCS 7 Licences additional required, see slide 88, 89
- Trainer Package adjusted on PCS 7 training curriculms

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: None available
Order number: 6ES7654-0UE13-0XS0
School Price: $3290
### Process control system SIMATIC PCS 7 AS RTX Box

#### Hardware (1)

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SIMATIC PCS 7 AS RTX AUTOMATION SYSTEM BASED ON IPC427C, CORE2 DUO 1.2 GHZ, 800 MHZ FSB, 3MB SLC, 2 GB DDR3 1066 SODIMM RAM, 4 GB COMPACT-FLASH CHANGEABLE, CP5611 ONBOARD, WINDOWS EMBEDDED STANDARD 2009, WINAC RTX 2010 SOFTWARE CONTROLLER, RUNTIME LICENSE AS PO100 PREINSTALLED FOR PCS 7 OPERATING, APPLICABLE EX PCS 7 V7.1 SP2 OR HIGHER</td>
<td>6ES7654-0UE13-0XX0</td>
</tr>
<tr>
<td>1</td>
<td>SIMATIC,STAND.SECTIONAL RAIL WIDTH 35MM, LENGTH 483MM FOR 19 IN.CABINETS</td>
<td>6ES7654-0UE13-0XX0</td>
</tr>
<tr>
<td>1</td>
<td>SIMATIC NET INDUSTRIAL ETHERNET TP XP CORD RJ45/RJ45, CAT 6, CROSSED TP CABLE 4X2, PREASSEMBLED W. 2 RJ45 CONNECTORS, LENGTH 6 M</td>
<td>6XV1870-3RH60</td>
</tr>
<tr>
<td>1</td>
<td>SIMATIC NET, CONN. CABLE 830-2 F. PROFIBUS, PREASSEMBLED CABLE WITH 2 SUB-D-CONNECTORS 9-POLE, SWITCHABLE TERMINATING RESISTORS, 5 M</td>
<td>6XV1830-2AH50</td>
</tr>
<tr>
<td>1</td>
<td>SITOP PSU100M 20A STABILIZED POWER SUPPLY INPUT: 120-230 V AC 110-220 V DC OUTPUT: 24 V/20 A DC</td>
<td>6EP1336-3BA10</td>
</tr>
<tr>
<td>2</td>
<td>SIMATIC S7-300, DIGITAL INPUT SM 321, OPTICALLY ISOLATED 32DI, 24 V DC, 1 X 40 PIN</td>
<td>6ES7321-1BL00-0AA0</td>
</tr>
<tr>
<td>1</td>
<td>SIMATIC S7/PCS7, SM 321 DIGITAL INPUT MODULE, 16 DI, 24V DC, 1 X 40 PIN, CAPABLE OF DIAGNOSTICS, FOR CONTACTS (CONNECTED/UNCONNECTED), NAMUR SENSOR, 3/4-WIRE-BERO, WITH FLUTTER MONITORING, PULSE LENGTHENING, WIRE BREAK DETECTION, IM153-2 INTERFACE MOD. REQUIRED</td>
<td>6ES7321-7TH00-0AB0</td>
</tr>
<tr>
<td>4</td>
<td>SIMATIC S7-300, DIGITAL INPUT SM 321, GALVANICALLY ISOLATED, 16 DI, DC 24V, 1 X 20 PIN, PROCESS INTERRUPT, DIAGNOSTICS, FIT FOR ISOCRONE MODE</td>
<td>6ES7321-7BH01-0AB0</td>
</tr>
<tr>
<td>1</td>
<td>SIMATIC S7-300, DIGITAL OUTPUT SM 322, OPTICALLY ISOLATED, 32DO, 24V DC, 0.5A, 1 X 40 PIN, SUM OF OUTPUT CURRENTS 4A/GROUP (16A/MODULE)</td>
<td>6ES7322-1BL00-0AA0</td>
</tr>
</tbody>
</table>
Process control system SIMATIC PCS 7 AS RTX Box

Hardware (2)

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

1 x SIMATIC S7-300, ANALOG INPUT SM 331, GALVANICALLY ISOLATED, 8 AI, 14 BIT, 0.052MS/CHANNEL, CURRENT, VOLTAGE, INTERRUPTS, DIAGNOSTICS,1 X 20 PIN, FIT FOR ISOCRONHE MODE IMPROVED DP-CYCLE TIME FOR ISOCRONHE MODE

1 x SIMATIC S7-300, ANALOG OUTPUT SM 332, OPTICALLY ISOLATED, 8 AO, U/I; DIAGNOSTICS; RESOLUTION 11/12 BITS, 40 PIN, REMOVE/INSERT W. ACTIVE, BACKPLANE BUS

5 x SIMATIC S7-300, FRONT CONNECTOR FOR SIGNAL MODULES WITH SCREW CONTACTS, 20-PIN

7 x SIMATIC S7-300, FRONT CONNECTOR WITH SCREW CONTACTS, 40-PIN

1 x SIMATIC DP, BUS UNIT FOR ET200M F. THE INTEGR. OF TWO 40 MM WIDE IO SUBMODULES FOR INSERT/REMOVE

1 x SIMATIC DP, RAIL FOR ET 200M 620 MM LONG FOR BUS MODULES FUNCTION: INSERT/REMOVE

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

6 x SIMATIC DP, ET 200M INTERFACE IM 153-2 HIGH FEATURE FOR MAX. 12 S7-300 MODULES, WITH REDUNDANCY, TIME STAMPING FIT FOR ISOCRONHE MODE NEW FEATURES: 12 MODULES / STATION SLAVE INITIATIVE FOR SWITCHES AND DRIVE ES EXTENDED DATA FOR HART SECOND-ARY VARIABLES OPERATON WITH 64PT MODULES EXTENDES TIMESTAMPS WITH 32 SIGNALS / SLOT

6ES7322-8BH10-0AB0
6ES7331-7HF01-0AB0
6ES7332-5HF00-0AB0
6ES7392-1AJ00-0AA0
6ES7392-1AM00-0AA0
6ES7153-2BA02-0XB0
6ES7195-1GG30-0XA0
6ES7195-7HA00-0XA0
6ES7195-7HB00-0XA0
Overview

- SINEMA Network Monitoring Software
- CP343-1 Advanced
- Switch X208
- Security Switch
- IWLAN
- FASTCONNECT Accessories Kit
- Development Kit
## SINEMA Network Monitoring Software V12

**6 X SINEMA SERVER BASIC-50 V12**  
6GK1781-1BA12-0AA0  
SINEMA SERVER 50 V12 NETWORK MONITORING SOFTWARE FOR 50 IP DEVICES VIA WEB BROWSER AUTOM. RECOGNITION+DISPLAY OF IE/PNIO/WLAN DEVICES+ TOPOLOGY IN NET. HMI INTEGRATION VIA OPC/HTTP(S). REPORTING, STATISTICS + ALARMS SERVER OVERVIEW + ADAPTABLE PROFILES, SW, MANUAL (DVD) + SINGLE LICENSE (USB) CLASS A, LANGUAGES (G,E,FR,CH); WIN XP+SP3 WIN 7+SP1 (32/64 BIT) + WIN SERVER 2008 R2+SP1

**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:**  
Authorization on USB-Stick

**Order number:**  
6GK1950-0BB06

**School Price:**  
600,- EUR
SIMATIC CP343-1 Advanced

1 x SIMATIC CP 343-1 Advanced
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,SS-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

6GK7343-1GX31-0XE0

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

School Price:
$920
Switch Technologies – Scalance X208 / SIMATIC NET

1 x SCALANCE X208
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
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

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:
6GK5208-0BA10-2AA3

Price:
$400

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

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
2 x SIMATIC NET SCALANCE S 623
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 V4 + HF1
SIMATIC NET INDUSTR. ETHERNET SOFTNET SECURITY CLIENT V4+HF1 SW FOR CONFIGURING SAFE IP BASED VPN-CONNECTIONS FROM PC/PG TO NETWORK SEGMENTS, WHICH ARE FUSED BY SCALANCE S, SINGLE LICENSE F.1 INSTALLATION R-SW, SW + ELECTR. MAN. ON CD SW 2-LANGUAGES (G,E); MANUAL 5-LANG. (G, E, F, I, S) FOR WINDOWS 7 ULTIMATE, PROFESSIONAL, AND 32BIT WINDOWS XP PRO+SP3

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

Recommended accessory:

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

School Price:
$1940
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 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,
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. R-SMA CONNECTOR, IP30 (-20+60DGR C), 2.4/5 GHZ; DIRECT MOUNTING TO SCALANCE W WITH R-SMA 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

Recommended accessories:
6GK1950-0BB00
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)

School Price:
- $1010
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 CONNECTOR PRO SOCKET FOR CONNECTION OF SCALANCE W-700/X208 PRO 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

Sales note: Schools, colleges and universities, for in-house vocational training departments
Technical note: None available
Order number: 6GK1950-0BB00
School Price: $470
Development Kit – PROFINET & PROFISAFE

1 x SIMATIC NET, DK-ERTEC 200 PN IO
DVELOPMENT PACKAGE FOR PN IO DEVICE
BASED ON ERTEC 200 INCL 10 ERTEC 200,
EVALUATION BOARD EB 200,
TEST-APPLICATION SOFTWARE,IE FC PLUG,
CABLE, STRIPPING TOOL, CP 1616,
DK-16XX PN IO, DOKU, V2.0 RT
AND IRT FUNCTIONALITY

1 x PROFISAFE-STARTERKIT V3.4
(FOR V1-MODE AND V2-MODE PROFISAFE-DEVICES)

6GK1953-0BA00

6ES7195-3BF02-0YA0

Sales note: Schools, colleges and universities, for in-house vocational training departments
Technical note: Support by ComDeC - Communication, Development & Certification
Order number: 6ES7195-3BT02-0YA0
School Price: $1765
Development Kit – PROFIsafe-Starterkit

Hardware

CP1616
• A PCI-card for the usage inside the PC as PROFINET IO Controller (test partner)
• The Evaluation Board 200 (EB 200) (for DK-ERTEC 200 PN IO V3.2)
• A testing environment for PROFINET IO Devices for custom based applications.

ERTEC ASICs
• For the development of custom based Hardware are included 10x ERTEC 200 (- for DK-ERTEC 200 PN IO V3.2)

PROFINET cabling/ -plugs
• For the configuration of a PROFINET cable are per Development Kit two FASTCONNECT plugs, one PROFINET cable, as well as one Stripping Tool included.

Power Supply
• Every Development Kit contains one Universal AC adaptor to power the Evaluation Boards.

Documentation
• Comprehensive range of documentation in English and German language is included on the CD.

Software
• DK-ERTEC 200 PN IO V3.2
• PROFINET Device Stack including application examples in source code to port to the included Evaluation Board;
• DK-16xx PN IO;
• Firmware to engineer the test partner of the CP1616 to use with Linux or WINDOWS XP, or to port to other PC-based operating systems
Development Kit – PROFIsafe-Starterkit

- Current PROFIsafe-specifications with current PROFIsafe-certificates
- PROFIsafe-driver-Software (as core components of the development kit)
  Example-GSD-File for STEP 7 (for PROFIBUS DP/PA development kit and DK-ERTEC 200 PN IO)
  Example-Project for S7-319F (for PROFIBUS DP/PA development kit DK-ERTEC 200 PN IO)
- GSD-Tools (i.e. GSD Editor and CRC-calculation-Tool)
- iParServer-Software and Tutorial (FB24)
- Tool-Calling-Interface-Example and Tutorial
- F-Programming-Guidelines
- Layer stack (V1SL and PN IO)
- Example-Firmware (for PROFIBUS DP/PA development kit and DK-ERTEC 200 PN IO)
  Project for example for application development system environment (for PROFIBUS DP/PA development kit and DK-ERTEC 200 PN IO)
  Slow-Motion-Monitor (for PROFIBUS: PG-PC and CP5613, for PROFINET: PG-CP1616)
- Extensive documentation
Sensor Technology

Overview

- SIMATIC MV440 HR Code reader
- SIMATIC RF200 RFID System
- SIMATIC RF300 RFID System
- SIWAREX Weighing systems
SIMATIC MV440 HR CODE READER

1 X SIMATIC MV440 HR CODE 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

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
School Price: 1,497.00 EUR
SIMATIC MV440 HR CODEREADER

1x MV440 CODE 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
## SIMATIC RFID – RF200

<table>
<thead>
<tr>
<th></th>
<th>SIMATIC RF200 READER RF240R; RS422-INTERFACE (3964R); WITH INTEGRATED ANTENNA</th>
<th>6GT2821-4AC10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RFID COMMUNICATION MODULE RF180C FOR PN; 2 READERS CONNECTABLE; WITHOUT CONNECTING BLOCK FOR PROFINET</td>
<td>6GT2002-0JD00</td>
</tr>
<tr>
<td>1</td>
<td>RFID PROFINET- / ETHERNET- CONNECTING BLOCK PUSH-PULL RJ45 FOR RF180C, RF182C</td>
<td>6GT2002-2JD00</td>
</tr>
<tr>
<td>1</td>
<td>POWER PLUG PRO, 5-POLE PUSH PULL POWER PLUG FOR ON-SITE MOUNTING (PACKAGING UNIT: 1 PLUG)</td>
<td>6GK1907-0AB10-6AA0</td>
</tr>
<tr>
<td>1</td>
<td>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)</td>
<td>6GK1901-1BB20-6AA0</td>
</tr>
<tr>
<td>2</td>
<td>SIMATIC RF, MV CONNECT. CABLE, PRESHASSEMBLED, 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</td>
<td>6GT2891-4FH20</td>
</tr>
<tr>
<td>1</td>
<td>RFID SYSTEMS SOFTWARE &amp; DOCUMENTATION ON DVD, FB/FC FOR SIMATIC, RFID PC LIBRARIES, RFID TOOLS</td>
<td>6GT2080-2AA20</td>
</tr>
<tr>
<td>5</td>
<td>MOBY D / RF300 ISO / RF200 TRANSPONDER MDS D400 ISO-CARD, 2000 BYTE (NETTO)</td>
<td>6GT2600-4AD00</td>
</tr>
<tr>
<td>5</td>
<td>MOBY D / RF300 ISO MOBILE DATA STORAGE MDS D460, ACCORDING TO ISO 15693; 2000 BYTE FRAM;</td>
<td>6GT2600-4AB00</td>
</tr>
<tr>
<td>5</td>
<td>MOBY D / RF300 ISO SPACER FOR MDS D160 / MDS D460; DIAMETER 20 MM; HEIGHT 15 MM</td>
<td>6GT2690-0AG00</td>
</tr>
<tr>
<td>5</td>
<td>RF200 / RF300 ISO TRANSPONDER MDS D423; TRANSPONDER IN AND ON METAL ACCORDING;2000 BYTE FRAM</td>
<td>6GT2600-4AA00</td>
</tr>
</tbody>
</table>

### 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

### School Price:
747,- EUR
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

1x RFID- Software and documentation
## SIMATIC RFID – RF300

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RFID COMMUNICATION MODULE RF180C FOR PROFINET; 2 READERS CONNECTABLE</td>
<td>6GT2002-0JD00</td>
</tr>
<tr>
<td>1</td>
<td>RFID PROFINET/ETHERNET- CONNECTING BLOCK</td>
<td>6GT2002-2JD00</td>
</tr>
<tr>
<td>2</td>
<td>RF300/600 CONN. CABLE PREASSEMBLED, LENGTH: 2 M</td>
<td>6GT2891-4FH20</td>
</tr>
<tr>
<td>1</td>
<td>RFID SYSTEMS SOFTWARE PACKAGE AND DOCUMENTATION ON CD</td>
<td>6GT2080-2AA20</td>
</tr>
<tr>
<td>1</td>
<td>RF300 READER RF340R (RF300+ISO15693) WITH RS422 AND INTEGRATED ANTENNA</td>
<td>6GT2801-2AB10</td>
</tr>
<tr>
<td>1</td>
<td>POWER PLUG PRO, 5-POLE PUSH PULL</td>
<td>6GK1907-0AB10-6AA0</td>
</tr>
<tr>
<td>1</td>
<td>RF300 READER RF310R (RF300+ISO15693) WITH RS422 AND INTEGRATED ANTENNA</td>
<td>6GT2801-1AB10</td>
</tr>
<tr>
<td>5</td>
<td>TRANSPONDER RF340T 8 KBYTE FRAM</td>
<td>6GT2800-4BB00</td>
</tr>
<tr>
<td>10</td>
<td>TRANSPONDER RF360T EPOXY-CARD, 8 KBYTE FRAM</td>
<td>6GT2800-4AC00</td>
</tr>
<tr>
<td>20</td>
<td>MOBY D / RF300 ISO MOBILE DATA MEMORY MDS D124 , 112 BYTE EEPROM</td>
<td>6GT2600-0AC10</td>
</tr>
</tbody>
</table>

### 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

### School Price:
1,300,- EUR
Tank monitoring by RFID Nameplates, documentation of process data

- 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
- 1x PROFINET Communication Module RF180C with RJ45 Connector Terminal Block in IP67
- 1x Software and documentation
- 2x Terminal Cable between Reader RF340R and Connect Module RF180C
- 1x Power Supply Cable for RF180C
**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

**System requirements:** None

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

**Technical note:** None available

**Order number:** 7MH4901-0AA10

**School Price:** $2980
Drive Technology

- 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

**Control Unit**
PROFINET CU250S-2 PN with OPERATOR PANEL (IOP)

**Power module**
PM240-2 – 0.55kW without EMV filter

**Asynchronous motor**
I.e., 1Le1
With power 0.55kW

**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

**Order number:**
6SL3200-3AX00-0UL1

**School Price:**
$800

Download STARTER
Download Startdrive
**SINAMICS G120 standard drive 1 AC 230V-Network**

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  
   Code: 6SL3210-1PB13-8UL0

2. **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  
   Code: 6SL3246-0BA22-1FA0

3. **SINAMICS SD-CARD 512 MB EMPTY**  
   Code: 6SL3054-4AG00-2AA0

4. **SINAMICS G120 SHIELD CONNECTION KIT 4 INCLUDES SCREENING PLATE AND FIXING ELEMENTS FOR CONTROL UNITS CU250S-2 VERSION: USS, CAN, DP, PN**  
   Code: 6SL3255-0AA00-4JA1

5. **SINAMICS G120 INTELLIGENT OPERATOR PANEL IOP OPTIONAL OPERATOR PANEL FOR SINAMICS G120, G120P, G110M, G110D, G120D, G120C, S110, ET200S FC, ET200PRO FC**  
   Code: 6SL3255-0AA00-2CA0

6. **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**  
   Code: 6SL3074-0AA10-0AA0

7. **SINAMICS LICENSE SAFETY INTEGRATED EXTENDED FUNCTIONS FOR MEMORY CARD**  
   Code: 6SL3074-7AA04-0AA0
SINAMICS G120 standard drive 1 AC 230V network
Optional motors

**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

**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

**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

*Note: When selecting motors, please contact your local Siemens technical sales department*
SINAMICS G120 standard drive 1 AC 230V network

Optional hardware

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

CIRCUIT BREAKER SZ S0

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

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

6SL3203-0CE13-2AA0

6GK1950-0BB00

Recommended accessories:

6GK1950-0BB00
Training 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

STARTER
COMMISSIONING TOOL FOR SINAMICS AND MICROMASTER VERSION V4.4.3

STARTDRIVE
ENGINEERING AND COMMISSIONG TOOL FOR SINAMICS VERSION V13 SP1

SIZER
CONFIGURATION TOOL FOR SIEMENS DRIVES

DRIVE ES BASIC V5.5 SP4
ENGINEERING-SW FOR DRIVES
5-LANGUAGE DVD WITH ELECTRONIC DOCUMENTATION, FOR STEP 7 V5.5 SP2
FLOATING LICENSE

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

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

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

School Price:
$820

Not part of the package

Download STARTER
Download Startdrive
## SINAMICS G120 standard drive 3 AC 400V network

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SINAMICS G120 POWER MODULE PM240-2</td>
<td>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</td>
<td>6SL3210-1PE12-3UL1</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>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</td>
<td>6SL3246-0BA22-1FA0</td>
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<td></td>
</tr>
<tr>
<td>1</td>
<td>SINAMICS SD CARD 512 MB EMPTY</td>
<td>6SL3054-4AG00-2AA0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>SINAMICS G120 SHIELD CONNECTION KIT 4 INCLUDES SCREENING PLATE AND FIXING ELEMENTS FOR CONTROL UNITS CU250S-2 VERSION: USS, CAN, DP, PN</td>
<td>6SL3264-1EA00-0LA0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>SINAMICS G120 INTELLIGENT OPERATOR PANEL IOP OPTIONAL OPERATOR PANEL FOR SINAMICS G120, G120P, G110M, G110D, G120D, G120C, S110, ET200S FC, ET200PRO FC</td>
<td>6SL3255-0AA00-4JA1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>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</td>
<td>6SL3255-0AA00-2CA0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>SINAMICS LICENSE SAFETY INTEGRATED EXTENDED FUNCTIONS FOR MEMORY CARD</td>
<td>6SL3074-0AA10-0AA0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>SINAMICS G120 LICENSE EXTENDED FUNCTIONS FOR MEMORY CARD OF CU250S-2 VECTOR FOR FUNCTIONALITY: EPOS</td>
<td>6SL3074-7AA04-0AA0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SINAMICS G120 standard drive 3 AC 400V network

Optional motors

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

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

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

Note: When selecting motors, please contact your local Siemens technical sales department
SINAMICS G120 standard drive 3 AC 400V network

Optional hardware

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

CIRCUIT BREAKER SZ S00

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

6SL3203-0CE13-2AA0

3RV2…

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

STARTER
COMMISSIONING TOOL FOR SINAMICS AND MICROMASTER VERSION V4.4.3

STARTDRIVE
ENGINEERING AND COMMISSIONING TOOL FOR SINAMICS VERSION V13 SP1

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

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
SINAMICS S120 servo drive 1 AC 230V network

S120 Package 1AC 230V – 0.37kW PROFINET

Network supply
3 AC 230V 50Hz commutation choke

Power module
PM340 - 0.37kW with integrated filter

Circuit breaker

Software in Package
DCC SINAMICS SIZER
CAD CREATOR
Starter

Control Unit PROFINET
CU310 PN Compact Flash Card

Basic Operator Panel

External Power Supply
24V Power supply for CU310 and S120 Power module

Power line

Sensor cable Drive-CLiq

Option 1
Asynchronous motor
i.e. LA7070-4 with rated output: 0.25 kW, 4-pole, 1350 rpm, with/without commutation choke

Option 2
Servo motor
i.e. 1FK7022 with 0.85 Nm torque, 6000 rpm, incremental encoder with DRIVE-CLiq

Option 3
Servo motor
i.e. 1FK7022 with 0.85 Nm torque, 6000 rpm, absolute encoder with DRIVE-CLiq

Not part of the package

Sensor cable Drive-CLiq

Terminal Module TM31
Expansion of number of digital inputs/outputs and analog inputs/outputs

Safety Module TM 54 F option
4 failsafe digital outputs
10 failsafe digital inputs

External Power Supply
24V Power supply for CU310 and S120 Power module

Option 1
Asynchronous motor
i.e. LA7070-4 with rated output: 0.25 kW, 4-pole, 1350 rpm, with/without commutation choke

Option 2
Servo motor
i.e. 1FK7022 with 0.85 Nm torque, 6000 rpm, incremental encoder with DRIVE-CLiq

Option 3
Servo motor
i.e. 1FK7022 with 0.85 Nm torque, 6000 rpm, absolute encoder with DRIVE-CLiq

Not part of the package
### SINAMICS S120 servo drive 1 AC 230V network

| 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: |  |
| Order number: | 6SL3080-8AB01-0AA0 |
| School Price: |  |
SINAMICS S120 servo drive 3 AC 400V network

**S120 Package 3AC 400V – 1.5kW PROFINET**

- **Software in Package**
  - DCC SINAMICS SIZER
  - CAD CREATOR Starter
- **Control Unit**
  - PROFINET
  - CU310 PN
  - Compact Flash Card
- **Power module**
  - PM340 – 1.5 kW
- **Network supply**
  - 3 AC 400V 50Hz with circuit breaker, EMC filter, commutation choke
- **Power line**
- **Basic Operator Panel**
- **Sensor cable Drive-CliQ**
- **External Power Supply**
  - 24V Power supply for CU310 and S120 Power module
- **Terminal Module TM31**
  - Expansion of number of digital inputs/outputs and analog inputs/outputs
- **Safety Module TM 54 F option**
  - 4 failsafe digital outputs
  - 10 failsafe digital inputs

**Asynchronous motor**
- i.e. 1FK7042
- Torque 3.0 Nm, 3000 rpm, incremental encoder with DRIVE-CliQ

**Servo motor**
- i.e. 1FK7042
- With 3.0Nm torque, 1420 rpm, with speed actual value encoder via sensor module SMC30

**Servo motor**
- i.e. 1FK7042
- Torque 3000 rpm, absolute encoder with DRIVE-CliQ

**Option A**
- 4 failsafe digital outputs
- 10 failsafe digital inputs

**Option B**
- 10 failsafe digital inputs

**Option C**
- Not part of the package

---

**In Preparation**

- **Industrial Controls**
- **Engineering Software**
- **SIMIT Simulation**
- **Basic Automation**
- **Controller/PLC**
- **Distributed IOs**
- **Operator control & monitoring**
- **Process Automation**
- **Industrial Communication**
- **Sensor Technology**
- **Drive Technology**
- **CNC Software**
- **PLM Software**
- **Important Notes**
SINAMICS S120 servo drive 3 AC 400V network

Systemvoraussetzung: 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: 

Order number: 6SL3080-8AE01-0AA0

School Price: $7970
SIMOTION D410-2 add on for SINAMICS S120
1- and 3- phase

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.
## SIMOTION D410-2 add-on for SINAMICS S120

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>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</td>
<td>6AU1410-2AD00-0AA0</td>
</tr>
<tr>
<td>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</td>
<td>6AU1400-1PA23-0AA0</td>
</tr>
<tr>
<td>SIMOTION ENGINEERING SYSTEM SCOUT AND SCOUT TIA V4.4 FULL LICENSE DVD INCL. STARTER, RUNTIME, TECHN., DOCUMENTATION FREE UTILITIES</td>
<td>6AU1810-1BA44-0XA0</td>
</tr>
<tr>
<td>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</td>
<td>6AU1810-1JA23-0XA0</td>
</tr>
<tr>
<td>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</td>
<td>6AU1820-8BD20-0AB0</td>
</tr>
</tbody>
</table>

**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

**School Price:**
$3040

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**Overview | List | Graphic | Cabinet**
SIMOTION D410 add on for SINAMICS S120
Optional software and hardware

SIMOTION ENGINEERING SYSTEM SCOUT STANDALONE SOFTWARE CARE SERVICE

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

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

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

- **6AU1810-0BA00-0XL0**
  SIMOTION ENGINEERING SYSTEM SCOUT STANDALONE SOFTWARE CARE SERVICE

- **6SL3055-0AA00-3AA1**
  SINAMICS TERMINAL MODULE CABINET TM31 WITHOUT DRIVE-CLIQ CABLE ADD-ON MODULE FOR SINAMICS CONVERTERS WITH DIGITAL AND ANALOG INPUTS AND OUTPUTS

- **6SL3060-4AA10-0AA0**
  SIGNAL CABLE; DRIVE-CLIQ MOTION CONNECT 500 IP20/IP20 LENGTH 0.95 m

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

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Page 130 Version 03/2015 Overview | List | Graphic | Cabinet
• Overview
  • SinuTrain Operate
  • SinuTrain Operate Students Package
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

| 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 |
| School Price: | $1080 |
Students 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

---

**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

**School Price:**

$365

---

**SinuTrain V4.5**
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

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

School Price:
$6,177.64

SinuTrain V4.4
1 x Classroom license
Students
32 Student licenses
300 hours each

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

Students
1x Classroom license
32 Student licenses
300 hours each

Overview | List | Graphic | Cabinet
**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**

| 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 |
| School Price: | $3041.30 |
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

Kontakt Partner

Germany: Karl Hermann Dietz karl.dietz@siemens.com
Austria: Hermann Kaineder hermann.kaineder@siemens.com
Switzerland: Marika Kerschbaumer marika.kerschbaumer@siemens.com
Other Countries: academic.plm@siemens.com
Important Notes

- Overview
  - WorldSkills
  - Purchasing Remarks for SCE Trainer Packages
WorldSkills – Cooperation to improve vocational training

**WorldSkills International (WSI)**

- WSI **promotes** the **quality** of **vocational training** for more than 60 years
- WSI organizes **biannually** a **WorldSkills competition** (WSC) with national preliminaries
  - With > 50 participating countries, > 1000 Competitors >200,000 visitors

**Siemens SCE = Global Industry Partner (GIP) and Product Sponsor**

For example in the discipline **Industrial Control (Skill 19)** the **best young skilled workers** from over **20 countries** compete with **Products from the Siemens Industry Sector**.

**Videos:** [youtu.be/jTnzGm51V_A](youtu.be/jTnzGm51V_A)  [youtu.be/JokhkRgFMPg](youtu.be/JokhkRgFMPg)

**Blog:** [WorldSkillsLeipzig2013](WorldSkillsLeipzig2013)

SCE promotes excellence in vocational training together with WSI
Purchasing Remarks of SCE Trainer Packages

For the purchasing of SCE Trainer Packages, a special supplementary agreement is required. The General License Conditions for Software Products for Industry Automation and Drive Technologies apply for software products. For trainer packages, the “Additional Agreement for SIMATIC Software for Class-Room 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

USA Partners please sign up www.usa.siemens.com/sce-app

Contact: Amanda.beaton@siemens.com is the SCE Promoter for the USA.

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

- SIMATIC S7-1516 PN/DP
- SIMATIC STEP 7 Trainer package (12er Classroom License)
- Upgrade SIMATIC STEP 7 Trainer package (12er Classroom License)
- SIMATIC S7 Software for Students
- SinuTrain Operate
- SinuTrain Operate for Students

6ES7516-3AN00-4AB3
6ES7822-1BA03-4YA5
6ES7822-1AA03-4YE5
6ES7822-1AC03-4YA5
6FC5870-1T...
6FC5870-1S...
Thank you for your attention!

Amanda Beaton  
SCE USA  
Amanda.beaton@siemens.com  
Usa.siemens.com/sce  
(770)625-5771

Christian Callegari  
SCE Team global  
E-Mail: christian.callegari@siemens.com  

siemens.com/sce