SCE Guide Trainer Packages

Siemens Automation Cooperates with Education (SCE)

Version 05/2025

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Siemens Automation Cooperates with Education (SCE)
Teaching made easy

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

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

Overview of SCE services

- Digital learning modules and learning/teaching documents for courses and self-study
- Trainer Packages for practice-oriented education
- Courses for conveying up-to-date technical knowledge
- Support for your projects/technical books
- Partnerships with educators, manufacturers of learning systems and WorldSkills
- Information portal for quick access to all SCE offers
- Offers for trainees and students to deepen automation and digitalization knowledge

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Digitalization is changing our world quickly and dramatically

Digitalization
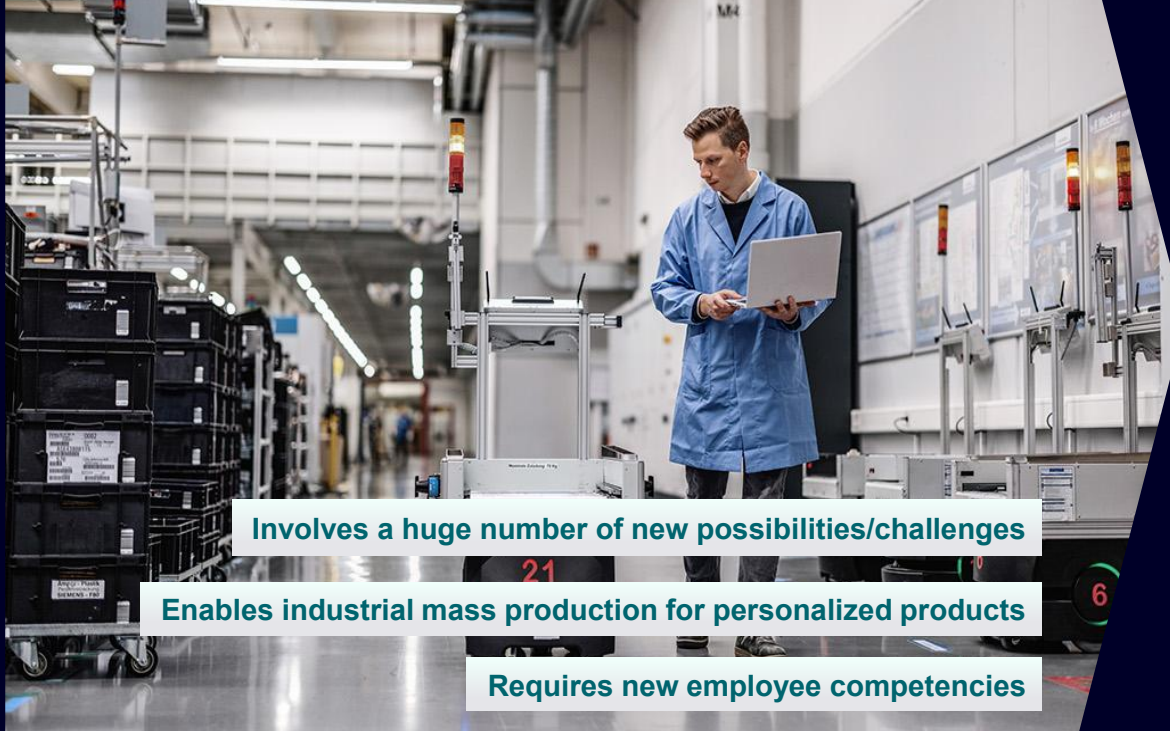
Involves a huge number of new possibilities/challenges

Enables industrial mass production for personalized products

Requires new employee competencies

Challenges for education and teaching

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

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

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The SCE digitalization concept
Implemented by Vocational School 2 in Wolfsburg, Germany in a group project

*Best Practice: Implementation by BBS 2 Wolfsburg. Not available for purchase!*
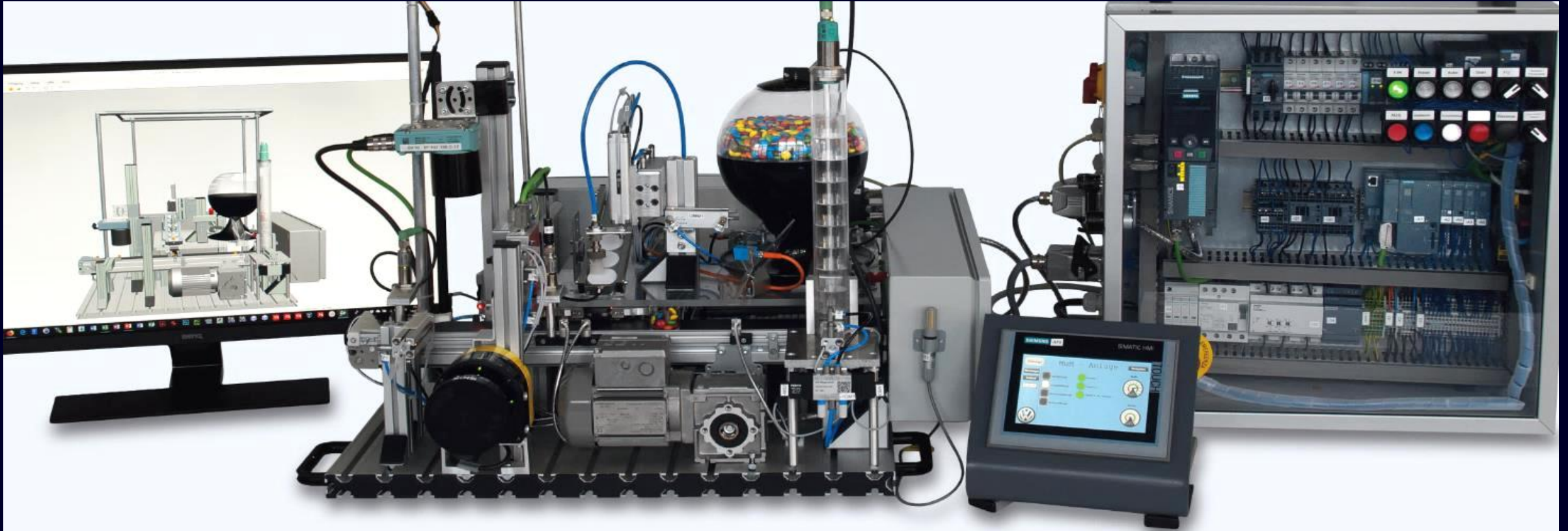
1. **Intuitive TIA Portal engineering of the real automation plant with SIMATIC S7-1500/ET 200SP/RFID/SCALANCE/SINAMICS**
2. **Virtual commissioning with the help of the digital twin using Siemens NX-MCD CAD software**
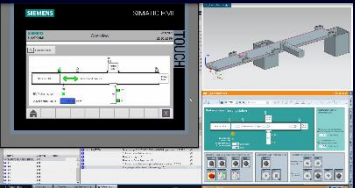3. **Cloud connection via IOT2050 for evaluation of production data**

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Teaching made easy
SCE digital learning modules for simplifying knowledge transfer to students
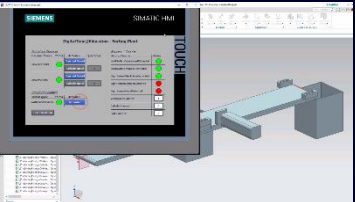
The modules
for automation know-how transfer
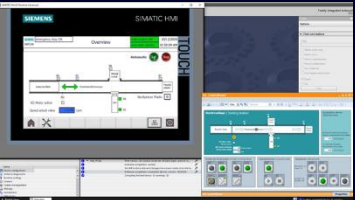
SIMIT
for 2D sorting station

Course Automation
for TIA FA with SIMIT

SIMIT with NX MCD
for 3D sorting station

Course Automation for
TIA FA with SIMIT & NX MCD

NX MCD
for 3D sorting station
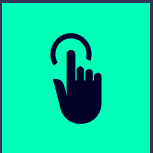
Course Automation
for Digital Twin

The benefits
for teaching at a glance

Practice-oriented

The learning modules are didactically designed for all types learning situations

Versatile use

All content is created that it can be used in a variety for vocational training or Higher Education or self-study

Interactive

We offer each learning modules as a holistic learning package for free download

Learn more: ↗ siemens.com/sce/lm

The usages
for vocational schools or study

Application range

for lectures/classes; project, laboratory, and student assignments as well as self-study

Content of learning modules:

Guides
Theory documents didactically prepared in DE, EN ES, FR, IT, PT, ZH

Tutorials
Learning Nuggets & interactive Call-To Actions in DE, EN

Projects
for version V19, V18, V16 with SIMIT, TIA Portal, NX MCD

↓ <u>Free Download</u> via Siemens ID with extended rights for SiePortal   ⓘ No account? ↗ <u>SCE Registration Guide</u>

Siemens ID registration with extended rights for SCE SiePortal made-easy

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SCE Trainer Packages for educators
Now with Online Software Delivery (OSD)

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

> 90 Trainer Packages for practice-oriented education

- Innovative hardware/software components incl. complete accessories

- Completely and functionally coordinated with one another in terms of content

- Low-cost original industrial components for classes

- Perfectly coordinated with SCE learning and training documents and aligned with teaching curriculums/content

- Innovative trends taken into account

OSD

Online Software Delivery (OSD) – The **OSD software download** can only be done via the e-mail address of the end user, e.g. educator/installer in educational institutions, not of the distributor.

NEW

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Why do we provide SCE Trainer Packages?

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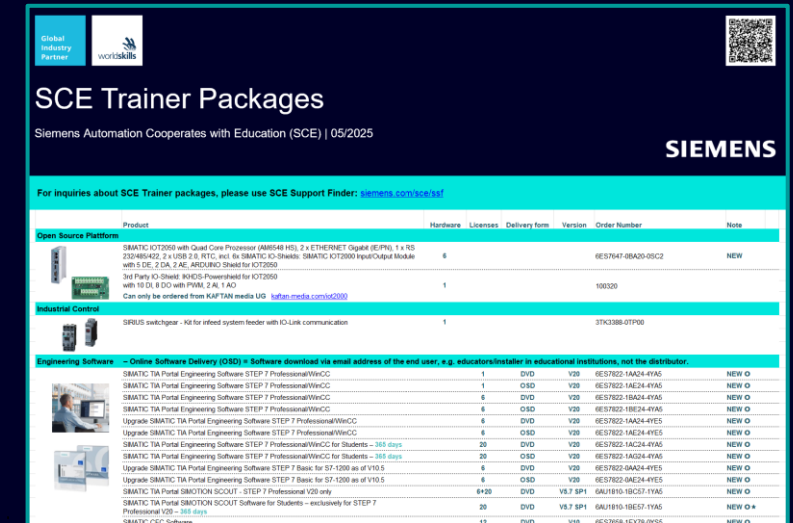
Who are these Trainer Packages for?

- For research, development and educational institutions

- For didactic companies (Suppliers of Learning Systems) for integration into their didactic solutions

- For industrial and initial corporate training → see order information

- For SinuTrain, there are separate approval/order processes → see order information

What should be considered when using Trainer Packages?

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

- The order information must also be observed

For inquiries about SCE Trainer packages, please use SCE Support Finder: siemens.com/sce/ssf

↗ SCE Trainer Package list

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Overview of Trainer Packages

SIMATIC TIA Engineering and Runtime Software
- SIMATIC TIA Portal Engineering software STEP 7 Professional/WinCC *
- Upgrade SIMATIC TIA Portal Engineering Software STEP 7 Professional/WinCC *
- Upgrade SIMATIC TIA Portal Engineering software STEP 7 Basic for S7-1200 from V10.5 *
- SIMATIC TIA Portal Engineering software STEP 7 Professional/WinCC for students *
- SIMATIC TIA Portal SIMOTION SCOUT - STEP 7 Professional V20 only *
- SIMATIC TIA Portal SIMOTION SCOUT software for students - exclusively for STEP 7 Professional V20 *
- SIMATIC CFC software *
- SIMATIC CFC software for students *
- SIMATIC NET IE SOFTNET *

SIMIT Simulation
- SIMIT simulation software *
- SIMATIC license USB dongle *
- SIMIT simulation plattform *
- SIMIT simulation demo version *

SIRIUS Industrial Controls

Open Source Plattform IOT2050 *

Basic Automation
- LOGO! 8 12/24V, LOGO! 8 230V (ETHERNET) *
- S7-1200 Basic controller 1215C *
- Upgrade STEP 7 Basic for S7-1200 packages *
- Basic panels KTP400/MTP400 for LOGO! *
- Basic panels KTP700/MTP700 for S7-1200 *

Operator Control & Monitoring
- Unified comfort panels MTP700/MTP1500 *
- SCADA system SIMATIC WinCC with options – additionally available as ASIA variant *

Process Automation
- SIMATIC PCS 7 software *
- Upgrade SIMATIC PCS 7 software *
- SIMIT CPU 410E single
- SITOP PSU6200 24V/20A
- Process control system PCS 7 AS CPU 410E + ET200SP HA

Drive Technology
- SINAMICS G120 for standard drive
- SINAMICS S120
- SINAMICS S210 with servo drive *

Industrial Identification
- SIMATIC code reader MV540
- SIMATIC RFID system RF200/RF300/RF600

Advanced Automation
- ET 200SP 1515SP PC2 F open controller *
- ET 200SP 1515SP PC2 TF open controller *
- ET 200SP 1512SP F-1 PN distributed controller *
- S7-1512C-1PN *
- S7-1516F-3 PN/DP safety, S7-1516-3 PN/DP *
- S7-1517TF-3 PN/DP *

Distributed IOs
- ET 200SP digital PROFINET
- ET 200SP with Energy Meter input module
- ET 200SP with IO-Link communication module or CM AS-i master
- ET 200SP analoge expansion module
- ET 200SP safety expansion module

Industrial Communication
- FASTCONNECT cable set
- IE SCALANCE switch XC208
- IE SCALANCE Security/LAN router S615
- SIMATIC NET SINEC NMS 100 *

SinuTrain Software

PLM Software

WorldSkills Partnership

Order information for Trainer Packages

* **New packages/updates**

Overview l Graphic

↗ TIA Portal

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System architecture of the Trainer Packages

SIMATIC TIA Engineering and Runtime Software *

Process Automation
SIMATIC PCS 7 *

Operator Control & Monitoring
MTP 700 and MTP1500 *

Advanced Automation

S7-1512C-1PN *	ET 200SP 1515SP PC2 *
S7-1516-3 PN/DP *	(T)F Open Controller *
S7-1516F-3 PN/DP *	ET 200SP 1512SP F-1 PN *
S7-1517TF-3 PN/DP *	Distributed Controller

Distributed IOs
ET 200SP PROFINET with
- Energy Meter
- AS-i Master CP
- IO-Link CP
- Expansion Analog | Safety

PROFINET

PROFIBUS

Basic Automation

LOGO! 8 *
Basic Controller S7-1215C *
Basic Panels KTP400/MTP400 *
Basic Panels KTP700/MTP700 *

Drive Technology

SINAMICS G120
SINAMICS S210 *
SINAMICS S120

Industrial Communication
- FASTCONNECT cable set
- Switch XC208
- Security/LAN router S615
- SINEC NMS 100 *

Industrial Identification
- SIMATIC MV540 code reader
- SIMATIC RFID system RF200/RF300/RF600

RF200/RF 300

MV540

SIMIT Simulation *

Industrial Controls
SIRIUS low-voltage devices

WorldSkills partnership

PLM Software *

SinuTrain Software

Order information for Trainer Packages

* **New packages/updates**

Overview I Graphic

↗ TIA Portal

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Process Analytics / Process Instrumentation

Process Analytics

↗ Process Analytics
- ULTRAMAT 23
- SIPROCESS GA700

Process Instrumentation

↗ Process Instrumentation
- Pressure-measurement
- Temperature-measurement
- Flow-measurement
- Level-measurement
- Positioners
- Weight-measurement
- Digitalization

SITOP Power supply

Advanced

Standard

Basic

SITOP overview

↗ PSU8600
The power supply with complete TIA integration, open communication up to the cloud

↗ PSU6200
The all-round power supply for a large number of applications

↗ PSU100L
The low-cost basic power supply

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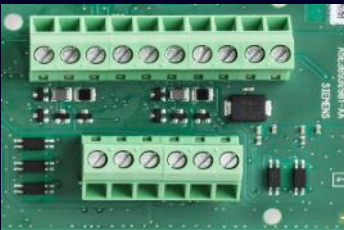
Product	Hardware	Licenses	Delivery form	Version	Order number (MLFB)	Note
SIMATIC IOT2050 with Quad Core Processor (AM6548 HS), 2 x ETHERNET Gigabit (IE/PN), 1 x RS 232/485/422, 2 x USB 2.0, RTC, incl. 6x SIMATIC IO Shields: SIMATIC IOT2000 Input/Output Module with 5 DE, 2 DA, 2 AE, ARDUINO Shield for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

⊙ Relevant Information: https://support.industry.siemens.com/cs/ww/en/view/65601780

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

Overview I Graphic

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SIMATIC IOT2050
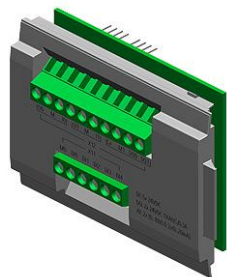
6 x SIMATIC IOT2050

6 x SIMATIC IoT2050
Input/Output Modul

Recommended accessories

6XV1870-3RH60
Industrial ETHERNET TP XP Cord RJ45/RJ45, CAT 6A, crossed
TP cable 4x2, pre-assembled with 2 RJ45 connectors, length 6 m

6GK1950-0BB00
Trainer Package FastConnect cable set

6EP3336-7SB00-3AX0
SITOP PSU6200 24 V/20 A stabilized power supply
input: 120 - 230 V AC (110 - 240 V DC) output: 24 V DC/20
A with diagnostic interface

Optionally, a MicroSDHC memory card can also be used.

6 x	SIMATIC IOT2050; 1x M.2; 2x Gbit ETHERNET RJ45; Display port; 2x USB2.0; 16 GB eMMC; SD card slot; 24V DC industrial power supply	6ES7647-0BB00-1YA2
6 x	SIMATIC IOT2000 input/output module, 5x DI 2x AI 2x DQ, ARDUINO Shield for SIMATIC IOT2040/IOT2050	6ES7647-0KA01-0AA2

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

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

Overview I Graphic

↗ TIA Portal

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Industrial controls
Overview

Product	Hardware	Licenses	Delivery form	Version	Order number (MLFB)	Note
SIRIUS switchgear - Kit for infeed system feeder with IO-Link communication		1			3TK3388-0TP00	

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

2 x Circuit breaker
3RV2011-1BA20

2 x Contactor
3RT2015-2BB42-0CC0

3 x Contactor
3RT2015-2BB42

1 x FM IO-Link
3RA2711-2BA002

1 x FM Star-delta
3RA2816-0EW20

1 x Digital monitoring relay
3UG4841-2CA40

1 x Overload relay
3RB3113-4PE0

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

1 x 3-phase busbar
3RV2917-1A
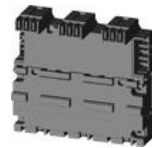
1 x 3-phase busbar
3RV2917-4B

5 x Contactor base
3RV2917-7AA00
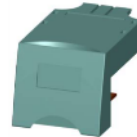
2 x Cable connector
3RV2917-5AA00

2 x Link module
3RA2911-2AA00

1 x Wiring kit
3RA2913-2AA2

1 x Wiring kit
3RA2913-2BB2

▶ IOT2000
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IO-Link

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

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

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

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

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

IO-Link

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ Process Automation
- ▶ SIMIT Simulation
- ▶ Basic Automation
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- ▶ Operator control & monitoring
- ▶ Industrial Communication
- ▶ Industrial Identification
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- ▶ WorldSkills
- ▶ Ordering Inform.

Overview I Graphic ↗ Project manual ↗ SIRIUS

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

1 x   Wiring kit, spring-loaded terminal, electrical and mechanical,
       including mechanical interlock for reversing starters, size S00   3RA2913-2AA2

1 x   Function module for IO-Link, reverse start, spring-loaded terminal,
       installation on contactors 3RT2 S00/S0, communication-capable contactor required   3RA2711-2BA00

1 x   Wiring kit, spring-loaded terminal, electrical and mechanical, including mechanical interlock,
       for star-delta starter, size S00   3RA2913-2BB2

1 x   Function module star-delta consisting of basic module and 2 coupling modules
       with integrated connecting cable, time range 0.5...60 s, 24...240 V AC/DC
       for contactors 3RT2   3RA2816-0EW20

1 x   Digital monitoring relay cos phi and current monitoring for IO-Link 90 to 690 V AC,
       0.2 to 10 A, overshoot and undershoot, on-delay time, tripping delay time, hysteresis 0.1 to 3.0 A,
       2 change-over contacts, spring-type connection system   3UG4841-2CA40

1 x   Overload relay 1...4 A for motor protection, size S00, class 5...30, contactor mounting
       main circuit: sprint-type terminal, auxiliary circuit: spring-type terminal,
       manual-automatic reset, internal ground fault detection   3RB3113-4PE0

1 x   Operator control block for devices with IO-Link, operator control block for SIRIUS with IO-Link   3RA6935-0A

IO-Link

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

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SIRIUS industrial controls modular system

SIRIUS Industrial Controls ↗

SIRIUS Command and Signaling Devices ↗

Safety Integrated ↗

Safety Relays 3SK.. ↗

SIRIUS@YouTube ↗

Safety@YouTube ↗

▶ IOT2000

▶ Industrial Controls

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▶ Process Automation

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Engineering and runtime software
Overview 1/2
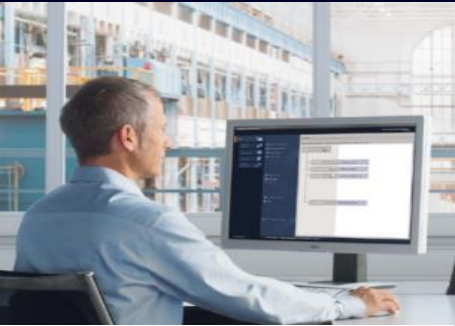
SW functionally identical to the industrial version
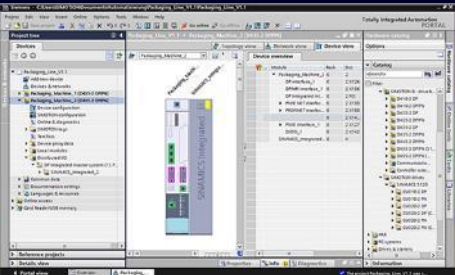
Product	Hardware	Licenses	Delivery form	Version	Order number (MLFB)	Note
SIMATIC TIA Portal Engineering Software STEP 7 Professional/WinCC		1	DVD	V20	6ES7822-1AA24-4YA5	NEW ○
SIMATIC TIA Portal Engineering Software STEP 7 Professional/WinCC		1	OSD	V20	6ES7822-1AE24-4YA5	NEW ○
SIMATIC TIA Portal Engineering Software STEP 7 Professional/WinCC		6	DVD	V20	6ES7822-1BA24-4YA5	NEW ○
SIMATIC TIA Portal Engineering Software STEP 7 Professional/WinCC		6	OSD	V20	6ES7822-1BE24-4YA5	NEW ○
Upgrade SIMATIC TIA Portal Engineering Software STEP 7 Professional/WinCC		6	DVD	V20	6ES7822-1AA24-4YE5	NEW ○
Upgrade SIMATIC TIA Portal Engineering Software STEP 7 Professional/WinCC		6	OSD	V20	6ES7822-1AE24-4YE5	NEW ○
SIMATIC TIA Portal Engineering Software STEP 7 Professional/WinCC for Students – 365 days		20	DVD	V20	6ES7822-1AC24-4YA5	NEW ○
SIMATIC TIA Portal Engineering Software STEP 7 Professional/WinCC for Students – 365 days		20	OSD	V20	6ES7822-1AG24-4YA5	NEW ○

Important note on Online Software Delivery (OSD) = Software download via email address of the end user, e.g. educators/installer in educational institutions, not the distributor.

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

Overview I Graphic   **SIEMENS**

Engineering and runtime software
Overview 2/2
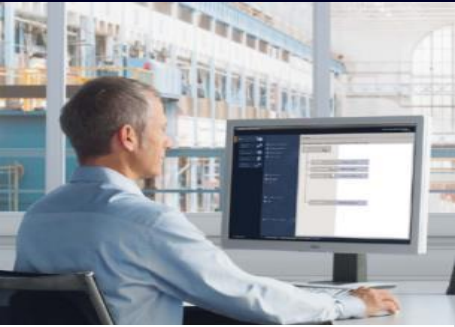
SW functionally identical to the industrial version
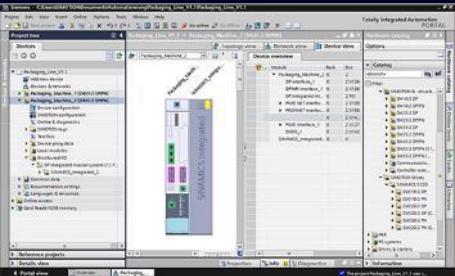
Product	Hardware	Licenses	Delivery form	Version	Order number (MLFB)	Note
Upgrade SIMATIC TIA Portal Engineering Software STEP 7 Basic for S7-1200 as of V10.5		6	DVD	V20	6ES7822-0AA24-4YE5	NEW ⭘
Upgrade SIMATIC TIA Portal Engineering Software STEP 7 Basic for S7-1200 as of V10.5		6	OSD	V20	6ES7822-0AE24-4YE5	NEW ⭘
SIMATIC TIA Portal SIMOTION SCOUT - STEP 7 Professional V20 only		6+20	DVD	V5.7 SP1	6AU1810-1BC57-1YA5	NEW ⭘
SIMATIC TIA Portal SIMOTION SCOUT SW for Students - exclusively for STEP 7 Professional V20 – 365 days		20	DVD	V5.7 SP1	6AU1810-1BE57-1YA5	NEW ⭘★
SIMATIC CFC Software		12	DVD	V10	6ES7658-1EX78-0YS5	NEW ⭘
SIMATIC CFC Software for Students – 365 days		20	DVD	V10	6ES7658-1EX78-0YS6	NEW ⭘★
SIMATIC NET IE SOFTNET		12	DVD	V20	6GK1950-0BB01	NEW ⭘

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⭘ Relevant Information: https://support.industry.siemens.com/cs/ww/en/view/65601780   ★ Only for schools, colleges and universities

Overview I Graphic

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System structure of Trainer Packages STEP 7 and SIMATIC HMI

SIMATIC software
- STEP 7 as basis

Engineering tools for STEP 7
- S7-PLCSIM simulation of S7 hardware
- S7-SCL similar to ST according to IEC61131 high-level language
- S7-GRAPH for sequencers according to DIN 1131-3

SIMATIC software HMI – Human Machine Interface

WinCC with
- Advanced level
- Smart Options
- Smart Access
- OPC interface
- …

Software Engineering Tool for STEP 7
- SIMATIC CFC
- SIMATIC NET IE software
- …

Touch Panel
MTP700 and MTP1500
PROFINET connection

ETHERNET connection for engineering

PROFINET

PROFIBUS

ETHERNET connection for engineering
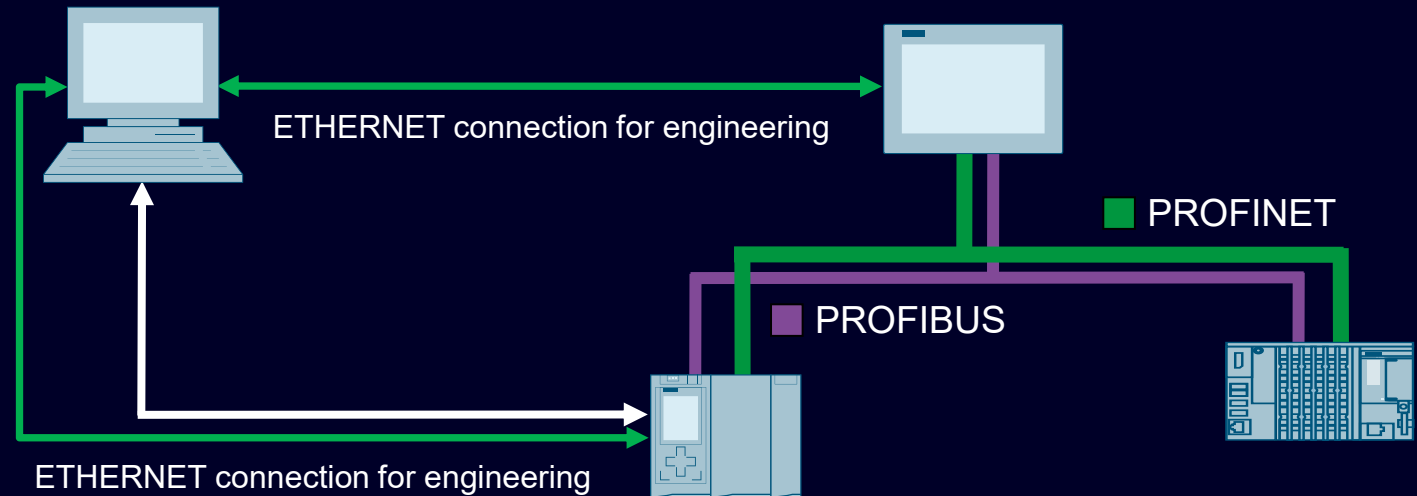
S7 controller
Trainer Package with PROFINET
(and PROFIBUS)

**ET 200SP Open Controller.
ET 200SP …**
Trainer Package with PROFINET
For PROFIBUS, only interface
has to be ordered separately

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SIMATIC TIA Portal STEP 7 Professional Engineering and WinCC V20 Engineering and Runtime Software for Training
1er license

Combo license for changeable use:

- STEP 7 Professional V20/2021 SR3
- Safety Advanced V20/V5.4 SP5 Update 2

License for engineering SW:

- CFC V20
- Cloud Connector V2.0
- Network Planner V2.0
- Multiuser V20
- Teamcenter Gateway V20
- CAx Publication Tools V3.0
- PRONETA Professional V1.1
- Automation Tool Advanced V5.0

License for S7-1500 hardware:

- S7-PLCSIM Advanced V7.0
- S7-ODK 1500S V2.5 (for Open Controller)
- S7-Target 1500S for Simulink® V6.0 (for Open Controller)

License for SINAMICS hardware:

- SINAMICS Startdrive license Basic V20
- SINAMICS Startdrive license Advanced V20
- SINAMICS DCC V20
- Safety Validation Assistant V20

DVD | OSD

Totally Integrated Automation **PORTAL**

Check HW compatibility for TIA Portal ↗

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

Overview I Graphic   ↗ Trial/SP/HF downloads   ↗ TIA Portal   **SIEMENS**

SIMATIC TIA Portal STEP 7 Professional Engineering and WinCC V20 Engineering and Runtime Software for Training
1er license

License for SIRIUS hardware:

- SIRIUS ENGINEERING SAFETY ES Professional V20
- SIRIUS SIMOCODE ES Professional COMBO V20
- SIRIUS Soft Starter ES PREMIUM COMBO V20

License for S7-300 hardware:

- S7-Technology V4.2
- S7 PID Professional V11/V20

Combo license for changeable use:

- WinCC Unified/Advanced V20/flexible 2008 SP5
- Visualization Architect (SiVArc) V20

DVD OSD

Totally Integrated Automation PORTAL

Check HW compatibility for TIA Portal ↗

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

Overview I Graphic

↗ TIA Portal

SIEMENS

SIMATIC TIA Portal STEP 7 Professional Engineering and WinCC V20 Engineering and Runtime Software for Training
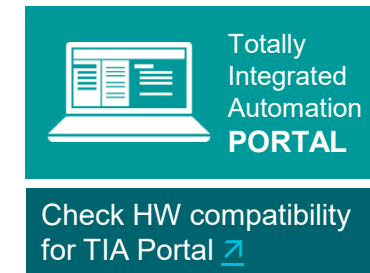## 1er license – Option Software and Runtime Software

WinCC RT Advanced V17:
- WinCC RT Advanced (512 PowerTags)
- WinCC Recipes for RT Advanced
- WinCC Logging for RT Advanced
- WinCC Sm@rtServer for RT Advanced
- WinCC Sm@rtServer for SIMATIC Comfort/Mobile Panels
- WinCC Sm@rtServer for SIMATIC Basic Panels
- ProDiag for WinCC RT Advanced
- ProDiag for SIMATIC Comfort/Mobile Panels

WinCC RT Unified V20:
- WinCC Unified PC (1k) RT
- WinCC Unified Parameter Control (Unified PC)
- WinCC Unified Client Operate (10)
- WinCC Unified Collaboration
- WinCC Unified Logging Tags (1000)
- WinCC Unified ProDiag
- WinCC Unified Audit (max)

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

Overview I Graphic   ↗ Trial/SP/HF downloads   ↗ TIA Portal

SIEMENS

SIMATIC TIA Portal STEP 7 Professional Engineering and WinCC V20 Engineering and Runtime Software for Training
1er license

Packaging 1 x DVD per package:

- STEP 7 Prof/Safety/WinCC Adv/Unified V20
- CFC V20
- S7-PLCSIM V20/S7-PLCSIM Advanced V7.0
- WinCC Unified PC Runtime V20
- WinCC Runtime Advanced V17
- Visualization Architect (SiVArc) V20
- Siemens Network Planner V2.0

- S7-ODK 1500S V2.5 (for Open Controller)
- S7-Target 1500S for Simulink® V6.0 (for Open Controller)
- SINAMICS Startdrive V20/DCC V20
- STEP 7 Professional 2021 SR3
- Distributed Safety V5.4 SP5 Update 2

Totally Integrated Automation **PORTAL**

Check HW compatibility for TIA Portal ↗

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

All others DVDs → Download

WinCC Panel Images → Download

Important note on Online Software Delivery (OSD) = Software download via email address of the end user, e.g. educators/installer in educational institutions, not the distributor.

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)	
Sales note:	Schools, colleges and universities, for internal vocational company training centers	Core product for vocational World Cup Industrial Control ↗
Technical note:	Authorization on USB stick or part of the OSD download	worldskills
Order number:	6ES7822-1AA24-4YA5 [DVD] 6ES7822-1AE24-4YA5 [OSD]	

Overview I Graphic   ↗ Trial/SP/HF downloads

SIEMENS

SIMATIC TIA Portal STEP 7 Professional Engineering and WinCC V20 Engineering and Runtime Software for Training
6er classroom license

Combo license for changeable use:

- STEP 7 Professional V20/2021 SR3
- Safety Advanced V20/V5.4 SP5 Update 2

License for Engineering SW:

- CFC V20
- Cloud Connector V2.0
- Network Planner V2.0
- Multiuser V20
- Teamcenter Gateway V20
- CAx Publication Tools V3.0

License for S7-1500 hardware:

- S7-PLCSIM Advanced V7.0
- S7-ODK 1500S V2.5 (for Open Controller)
- S7-Target 1500S for Simulink® V6.0 (for Open Controller)

License for SINAMICS hardware:

- SINAMICS Startdrive license Basic V20
- SINAMICS Startdrive license Advanced V20
- SINAMICS DCC V20

DVD OSD

Totally Integrated Automation **PORTAL**

Check HW compatibility for TIA Portal ↗

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

Overview I Graphic   ↗ Trial/SP/HF downloads

SIEMENS

SIMATIC TIA Portal STEP 7 Professional Engineering and WinCC V20 Engineering and Runtime Software for Training
6er classroom license

License for SIRIUS hardware:

- SIRIUS ENGINEERING SAFETY ES Professional V20
- SIRIUS SIMOCODE ES Professional COMBO V20
- SIRIUS Soft Starter ES Professional COMBO V20

License for S7-300 hardware:

- S7-Technology V4.2
- S7 PID Professional V11/V20

Combo license for changeable use:

- WinCC Unified/Advanced V20/flexible 2008 SP5
- Visualization Architect (SiVArc) V20

DVD   OSD

Totally Integrated Automation **PORTAL**

Check HW compatibility for TIA Portal ↗

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

Overview I Graphic   ↗ Trial/SP/HF downloads   ↗ TIA Portal

SIEMENS

SIMATIC TIA Portal STEP 7 Professional Engineering and WinCC V20 Engineering and Runtime Software for Training
6er classroom license – Option Software and Runtime Software

WinCC RT Advanced V17:

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

WinCC RT Unified V20:

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

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

Overview I Graphic   ↗ Trial/SP/HF downloads   ↗ TIA Portal

SIEMENS

SIMATIC TIA Portal STEP 7 Professional Engineering and WinCC V20 Engineering and Runtime Software for Training
6er classroom license

Packaging 1 x DVD per package:
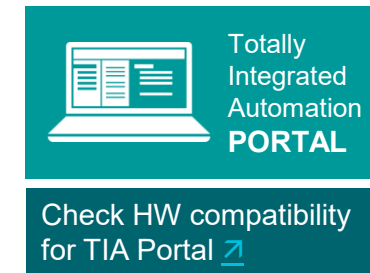
- STEP 7 Professional/Safety/WinCC Advanced/Unified V20
- CFC V20
- S7-PLCSIM V20/S7-PLCSIM Advanced V6.0
- WinCC Unified PC Runtime V20
- WinCC Runtime Advanced V17
- Visualization Architect (SiVArc) V20
- Siemens Network Planner V2.0

- S7-ODK 1500S V2.5 (for Open Controller)
- S7-Target 1500S for Simulink® V6.0 (for Open Controller)
- SINAMICS Startdrive V20/DCC V20
- STEP 7 Professional 2021 SR3
- Distributed Safety V5.4 SP5 Update 2

Totally Integrated Automation **PORTAL**

Check HW compatibility for TIA Portal ↗

If a trainer package "SIMATIC STEP7/ WinCC V20 Software for Students" is required, please order additionally, see page 31 for the order number.

All others DVDs → Download

WinCC Panel Images → Download

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

Important note on OnlineSoftware Delivery (OSD) = Software download via email address of the end user, e.g. educators/installer in educational institutions, not the distributor.

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)	Core product for vocational World Cup Industrial Control ↗	worldskills
Sales note:	Schools, colleges and universities, for internal vocational company training centers		
Technical note:	Authorization on USB stick or part of the OSD download		
Order number:	6ES7822-1BA24-4YA5 (DVD) 6ES7822-1BE24-4YA5 (OSD)	Upgrade 6ES7822-1AA24-4YE5 (DVD)	Upgrade 6ES7822-1AE24-4YE5 (OSD)

Overview I Graphic   ↗ Trial/SP/HF downloads   ↗ TIA Portal   **SIEMENS**

SIMATIC TIA Portal STEP 7 and WinCC V20 software for students
Engineering and Runtime Software for Training
20er licenses

Combo license for changeable use:
- STEP 7 Professional V20/2021 SR3
- Safety Advanced V20/V5.4 SP5 Update 2
- WinCC Unified/Advanced V20/flexible 2008 SP5

License for Engineering SW:
- CFC V20
- Multiuser V20

Licence for SINAMICS hardware:
- SINAMICS Startdrive Lizenz Basic V20
- SINAMICS DCC V20
- Safety Validation Assistant V20

License for S7-1500 hardware:
- S7-PLCSIM Advanced V7.0
- S7-ODK 1500S V2.5 (for Open Controller)
- S7-Target 1500S for Simulink® V6.0
  (for Open Controller)

Option and Runtime software:
- WinCC RT Unified PC (1k) V20
- WinCC RT Advanced (512 PowerTags) V17
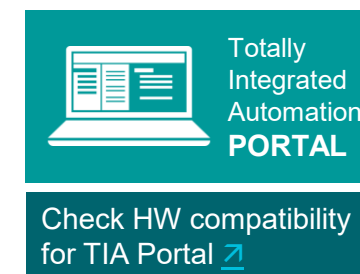
Software subject to time limit of 365 days with authorization

Totally Integrated Automation **PORTAL**

Check HW compatibility for TIA Portal ↗

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

SIMATIC TIA Portal STEP 7 and WinCC V20 software **for students**
Engineering and Runtime Software for Training
20er licenses

Packaging 1 x DVD per package:

- STEP 7 Professional/Safety/WinCC Advanced/Unified V20
- CFC V20
- TIA Portal Test Suite Advanced V20
- S7-PLCSIM V20/S7-PLCSIM Advanced V7.0
- WinCC Unified PC Runtime V20
- WinCC Runtime Advanced V17

- S7-ODK 1500S V2.5 (for Open Controller)
- S7-Target 1500S for Simulink® V6.0 (for Open Controller)
- SINAMICS Startdrive V20/DCC V20
- STEP 7 Professional 2021 SR3
- Distributed Safety V5.4 SP5 Update 2

Totally Integrated Automation **PORTAL**

Check HW compatibility for TIA Portal ↗

All others DVDs → Download

WinCC Panel Images → Download

Software subject to time limit of 365 days with authorization

Important note on Online Software Delivery (OSD) = Software download via email address of the end user, e.g. educators/installer in educational institutions, not the distributor.

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	Authorization on USB stick or part of the OSD download
Order number:	6ES7822-1AC24-4YA5 6ES7822-1AG24-4YA5

Core product for vocational World Cup Industrial Control ↗

worldskills

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

SIEMENS

Upgrade SIMATIC STEP 7 Basic V20 for SIMATIC S7-1200/Basic Panels Engineering and Runtime Software for Training
6er licenses

SIMATIC STEP 7 Basic V20 upgrade – as of V10.5

Software and documentation on DVD

License key on USB; 9 languages: de, en, zh included as well as fr, es, it, ru, jp, kr as download

For configuring SIMATIC S7-1200/Basic Panels

SINAMICS Startdrive Basic license V20

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

Packaging 1 x DVD per package
SIMATIC STEP 7 Basic V20
PLCSIM V20
SINAMICS start drive V20

Totally Integrated Automation **PORTAL**

Check HW compatibility for TIA Portal ↗

All others DVDs   → Download

WinCC Panel Images → Download

Note for SIMATIC STEP 7 Basic software: Only for hardware S7-1200, Basic Panel MTP400/KTP400 **and** MTP700/KTP700

Important note on Online Software Delivery (OSD) = Software download via email address of the end user, e.g. educators/installer in educational institutions, not the distributor.

System requirements:	WIN 10/11 (64 Bit) Prof., Enterprise and Home 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	Authorization on USB stick or part of the OSD download
Order number:	Upgrade 6ES7822-0AA24-4YE5

Core product for vocational World Cup Industrial Control ↗

worldskills

Upgrade
6ES7822-0AE24-4YE5

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

SIEMENS

SIMATIC TIA Portal SIMOTION SCOUT V5.7 SP1
6er classroom license

License for engineering software

- SIMOTION SCOUT V5.7 SP1
- CamTool V4.5
- DCC SIMOTION Engineering

1 x SCE Trainer Package 20 license SIMOTION SCOUT V5.7 SP1 – for Students   6AU1810-1BE57-1YA5

SIMOTION SCOUT and SCOUT TIA Download → Download

Please note: Only for STEP 7 Professional V20

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	Authorization on USB stick
Order number:	6AU1810-1BC57-1YA5

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

SIEMENS

SIMATIC TIA Portal SIMOTION SCOUT V5.7 SP1 software **for students**
20er licenses

License for engineering software

- SIMOTION SCOUT V5.7 SP1
- CamTool V4.5
- DCC SIMOTION Engineering

SIMOTION SCOUT and SCOUT TIA Download → Download

Please note: Only for STEP 7 Professional V20
Software subject to time limit of 365 days with authorization

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Use only for students for independent study at home. Schools, colleges and universities, not for internal vocational company training centers
Technical note:	Authorization on USB stick
Order number:	6AU1810-1BE57-1YA5

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

SIEMENS

SIMATIC CFC software – Option for SIMATIC Manager
12er classroom license

12 x   **SIMATIC CFC V10**

1 x 20   **Software for students SIMATIC CFC V10**
20 licenses per USB stick.

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

Software subject to time limit of 365 days with authorization

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	Authorization on USB stick
Order number:	6ES7658-1EX78-0YS5

Overview I Graphic

SIEMENS

SIMATIC CFC software for students – Option for SIMATIC Manager
20er licenses

20 x   **SIMATIC CFC V10 – for students**
             20 licenses per USB stick

▶ IOT2000

▶ Industrial Controls

▶ Engineering SW

▶ Process Automation

▶ SIMIT Simulation

▶ Basic Automation

▶ Advanced Automation

▶ Distributed IOs

▶ Operator control & monitoring

▶ Industrial Communication

▶ Industrial Identification

▶ Drive Technology

▶ SinuTrain SW

▶ PLM Software

▶ WorldSkills

▶ Ordering Inform.

Software subject to time limit of 365 days with authorization
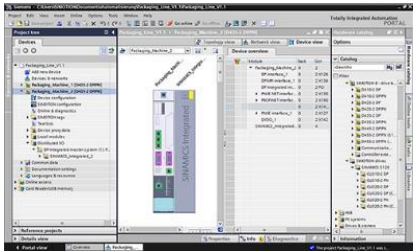
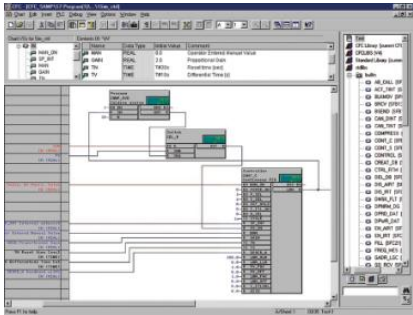|	
System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Use only for students for independent study at home. Schools, colleges and universities, not for internal vocational company training centers
Technical note:	Authorization on USB stick
Order number:	6ES7658-1EX78-0YS6

Overview I Graphic

SIEMENS

SIMATIC NET IE SOFTNET V20
12er classroom license

12 x SIMATIC NET IE SOFTNET-S7 V20

SOFTNET-IE S7 V20 software for S7, S5-compatible communication, OPC; PG/OP communication, configuration software, up to 64 connections; floating license; runtime software, software and electronic manual; on DVD; license key on USB flash drive; class A; 3 languages (de, en, zh)

6GK1704-1CW24-0AA0

Totally Integrated Automation **PORTAL**

Check HW compatibility for TIA Portal ↗

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

System requirements:	Windows 10 Pro/Enterprise, Windows 10(IoT) Enterprise 2019 LTSC Windows 10(IoT) Enterprise 2021 LTSC Windows 11 Pro/Enterprise; Windows Server 2019, 2022 (Standard Edition, Datacenter)
Sales note:	Schools, colleges and universities, not for internal vocational company training centers
Technical note:	Authorization on USB stick
Order number:	6GK1950-0BB01

Overview I Graphic

↗ TIA Portal

SIEMENS

Process automation
Overview

Product	Hardware	Licenses	Delivery form	Version	Order number (MLFB)	Note
SIMATIC PCS 7 Software		3	DVD	V10	6ES7650-0XX78-0YS5	NEW
SIMATIC PCS 7 Software		6	DVD	V10	6ES7650-0XX78-2YS5	NEW
Upgrade SIMATIC PCS 7 Software V9.x to V10		3	DVD	V10	6ES7650-0XX78-0YE5	NEW
SIMATIC CPU 410E Single	1				6ES7654-0UE23-0XS4	
SITOP PSU6200 24V/20A, stabilized power supply					6EP3336-7SB00-3AX0	
SIMATIC ET 200SP HA	1				6ES7654-0UE23-0XS3	

Relevant Information: https://support.industry.siemens.com/cs/ww/en/view/65601780

Overview I Graphic   ↗ PCS 7 Training Documents

SIEMENS

Process control system SIMATIC PCS 7
Software licenses

3er license / 3er upgrade:

1 x DVD: PCS 7 software V10

1 x Paper: Certificate of License (A5E00276662)

1 x Stick: License key USB stick with 3 * floating licenses
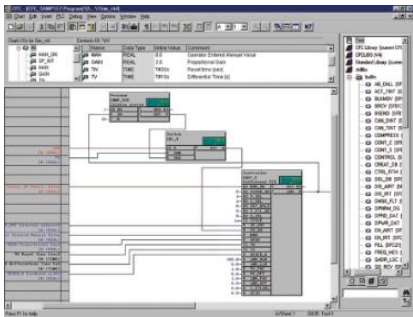
6er license:

2 x SIMATIC PCS 7 – 3er license

▶ IOT2000

▶ Industrial Controls

▶ Engineering SW

▶ Process Automation

▶ SIMIT Simulation

▶ Basic Automation

▶ Advanced Automation

▶ Distributed IOs

▶ Operator control & monitoring

▶ Industrial Communication

▶ Industrial Identification

▶ Drive Technology

▶ SinuTrain SW

▶ PLM Software

▶ WorldSkills

▶ Ordering Inform.

System requirements:	Microsoft Windows 10 (64 BIT) Enterprise LTSC 2019, Microsoft Windows Server 2019 (64 BIT) Standard / Datacenter		
Sales note:	Schools, colleges and universities, for internal vocational company training centers		
Technical note:	Authorization on USB stick		
Order number:	**3er license** 6ES7650-0XX78-0YS5	**6er license** 6ES7650-0XX78-2YS5	**3er** upgrade from V9.x to V10 6ES7650-0XX78-0YE5

SIEMENS

Process control system SIMATIC PCS 7 hardware

Packaging:

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

Note:

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

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

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

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

Overview l Graphic

SIEMENS

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

→ **See next slide**

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

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

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

Overview I Graphic

SIEMENS

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

→ **See previous slide**

1 x	SIMATIC ET 200SP HA, carrier module in single carrier for holding one interface module of the ET 200SP HA incl. server module	6DL1193-6BH00-0SM0
1 x	SIMATIC ET 200SP HA, PROFINET Interface module IM15 5-6 PN max. 56 peripheral modules, multi hot swap, without server module	6DL1155-6AU00-0PM0
1 x	SIMATIC ET 200SP HA, BusAdapter BA 2xRJ45, 2 RJ45 sockets for PROFINET	6DL1193-6AR00-0AA0
2 x	SIMATIC ET 200SP HA, carrier module 8-fold carrier for holding 8 IO modules of the ET 200SP HA	6DL1193-6GC00-0NN0
4 x	SIMATIC ET 200SP HA, digital input module, DI 16X24VDC HA, suitable for terminal block H1, M1, color code CC01, channel diagnostics	6DL1131-6BH00-0PH1
2 x	SIMATIC ET 200SP HA, digital input module, DI 32X24VDC HA, suitable for terminal block, H1, P0, color code CC00, channel diagnostics	6DL1131-6BL00-0PH1
2 x	SIMATIC ET 200SP HA, digital output module, DQ 16X24VDC/0,5A HA, suitable for terminal block, H1, M1, color code CC02, channel diagnostics	6DL1132-6BH00-0PH1
1 x	SIMATIC ET 200SP HA, digital output module, DQ 32X24VDC/0.5A HA, suitable for terminal block, H1, N0, color code CC00, channel diagnostics	6DL1132-6BL00-0PH1
1 x	SIMATIC ET 200SP HA, analog HART input module, AI 16XI 2-wire HART HA, suitable for terminal block H1, M1, color code CC01, channel diagnostics, 16-bit, +/-0.1%,	6DL1134-6TH00-0PH1
1 x	SIMATIC ET 200SP HA, configurable I/O module, AI-DI16/DQ16X24VDC HART, suitable for terminal block H1, M1, color code CC00, channel diagnostics, 16-bit, +/-0.1%,	6DL1133-6EW00-0PH1
1 x	SIMATIC ET 200SP HA, analog input module, AI 16XTC/8XRTD 2-/3-/4-wire HA, suitable for terminal block H1, M1, color code CC00, channel diagnostics, 16-bit, +/-0.05%, 2-/3-/4-wire	6DL1134-6JH00-0PH1
1 x	SIMATIC ET 200SP HA, analog output module, AQ 8XI HART HA suitable for terminal block H1, M1, color code CC00, channel diagnostics, 16-bit, +/-0.1%	6DL1135-6TF00-0PH1
1 x	SIMATIC ET 200SP HA, terminal block, type H1, 32 push-in terminals, internal reference temperature. New load group, width: 22.5 mm	6DL1193-6TP00-0DH1
7 x	SIMATIC ET 200SP HA, terminal block, type H1, 32 push-in terminals, internal reference temperature. Width: 22.5 mm	6DL1193-6TP00-0BH1
1 x	SIMATIC ET 200SP HA, terminal block, type M1, 32 push-in terminals, internal reference temperature. Width: 45 mm	6DL1193-6TP00-0BM1
1 x	SIMATIC ET 200SP HA, terminal block, type P0, 64 push-in terminals, width: 45 mm	6DL1193-6TP00-0DP0
1 x	SIMATIC ET 200SP HA, teriminal block, type P0, 64 push-in terminals, width: 45 mm	6DL1193-6TP00-0BP0
1 x	SIMATIC ET 200SP HA, terminal block, type N0, 64 push-in terminals, width: 45 mm	6DL1193-6TP00-0DN0

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

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

Overview I Graphic

SIEMENS

Virtual commissioning with SIMIT Simulation Platform
Overview
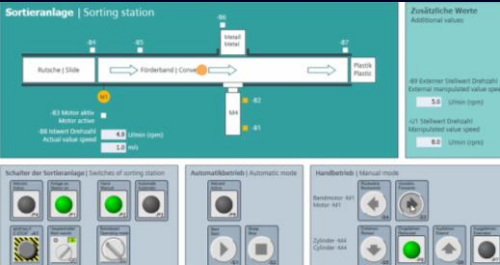
Product	Hardware	Licenses	Delivery form	Version	Order number (MLFB)	Note
SIMIT simulation software: License USB dongle must be ordered additionally (includes SIMIT S & CTE, FLOWNET, CONTEC libraries) – 4000 simulation tags		1		V11.3	6DL8913-0AL31-0AS5	NEW ⭘
SIMATIC License Universal USB dongle (must be ordered with every SIMIT package)	1				6DL8900-8XX02-0XB8	NEW ⭘
Link to activate the dongle: siemens.com/activate						
SIMIT Simulation Platform, software media package	SIMIT Simulation Platform	1		V11.3	6DL8913-0XL30-0XT8	NEW ⭘
Demo version SIMIT Simulation Platform, Software Media Package	SIMIT Ressources	1		V11.3	Download	NEW ⭘

SIMIT Simulation Platform – full version V11.3 with dongle
(valid for the next 3 versions)

- SIMIT V11.3 Trainer Package has the range of functions of SIMIT Model S
- SIMIT V11.3 cannot be installed "side by side" with older SIMIT versions
- SIMIT 11.3 has a new licensing procedure (with new dongle)
- The limitations in Demo Runtime V11.x are identical to Demo SIMIT Runtime V8.x, V9.x and 10.x

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

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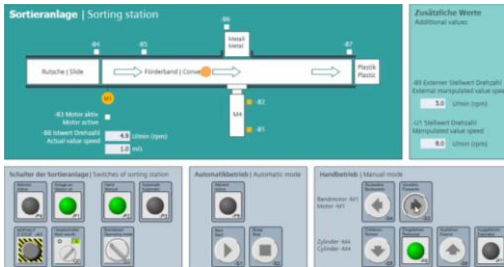
NOTE: SIMIT trainer package consists of three products. These must be ordered together. The separation is necessary for logistical reasons.

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise and Home 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	Hardware USB dongle
Order number:	6DL8913-0AL31-0AS5 6DL8900-8XX02-0XB8 * Link to activate the dongle: siemens.com/activate

Coupling with S7-1200 not possible

* Must be ordered with each SIMATIC package

► IOT2000
► Industrial Controls
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► Drive Technology
► SinuTrain SW
► PLM Software
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SIMIT Simulation Platform – Demo version V11.3 without dongle

SIMIT V11.3 demo version

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

The following restrictions apply for this demo version:

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

↗ [Discover SIMIT](#)   SIMIT Simulation Media Systems (incl. Videos) → Download for Offline Usage

↗ [SIMIT Simulation Plattform](#) → Overview

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise and Home 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)	**Coupling with S7-1200 not possible**
Sales note:	Schools, colleges and universities, for internal vocational company training centers	
Technical note:	None available	
Order number:	[Download](#) 6DL8913-0XL30-0XT8	

▶ IOT2000

▶ Industrial Controls

▶ Engineering SW

▶ Process Automation

▶ SIMIT Simulation

▶ Basic Automation

▶ Advanced Automation

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SIMIT Simulation Platform V11.3
Application versions

SIMIT models →

Test of PLC user program

Test of PLC user program
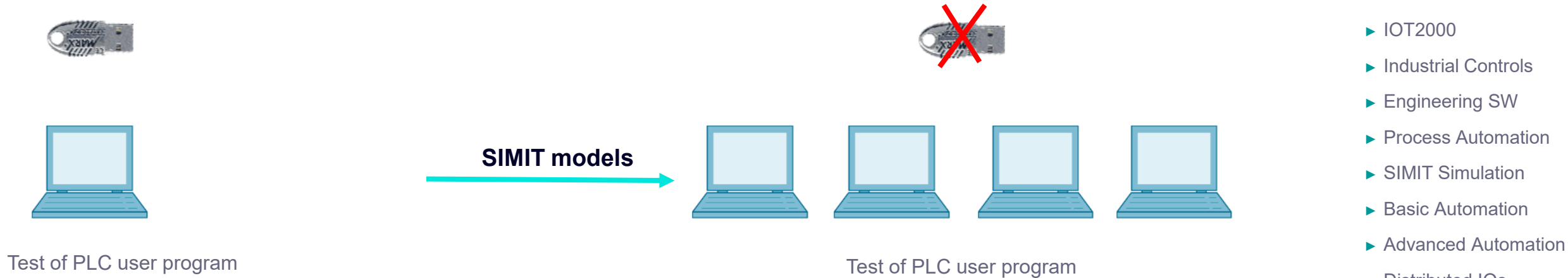
Educator (dongle owner):

- Creation, adaptation and transfer of models without restrictions

- Creation, adaptation and transfer of models for demo version within restrictions of demo version

Students (demo version without dongle):

- Use of the models within the restrictions of the demo version

- Creation of own models with address space restriction

- Projects created in the demo version are restricted to the SIMIT installation in which they were created

▶ IOT2000

▶ Industrial Controls

▶ Engineering SW

▶ Process Automation

▶ SIMIT Simulation

▶ Basic Automation

▶ Advanced Automation

▶ Distributed IOs

▶ Operator control & monitoring

▶ Industrial Communication

▶ Industrial Identification

▶ Drive Technology

▶ SinuTrain SW

▶ PLM Software

▶ WorldSkills

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SIMIT Simulation Platform V11.3
Application versions

SIMIT with SIMIT dongle A

Educators/
students:
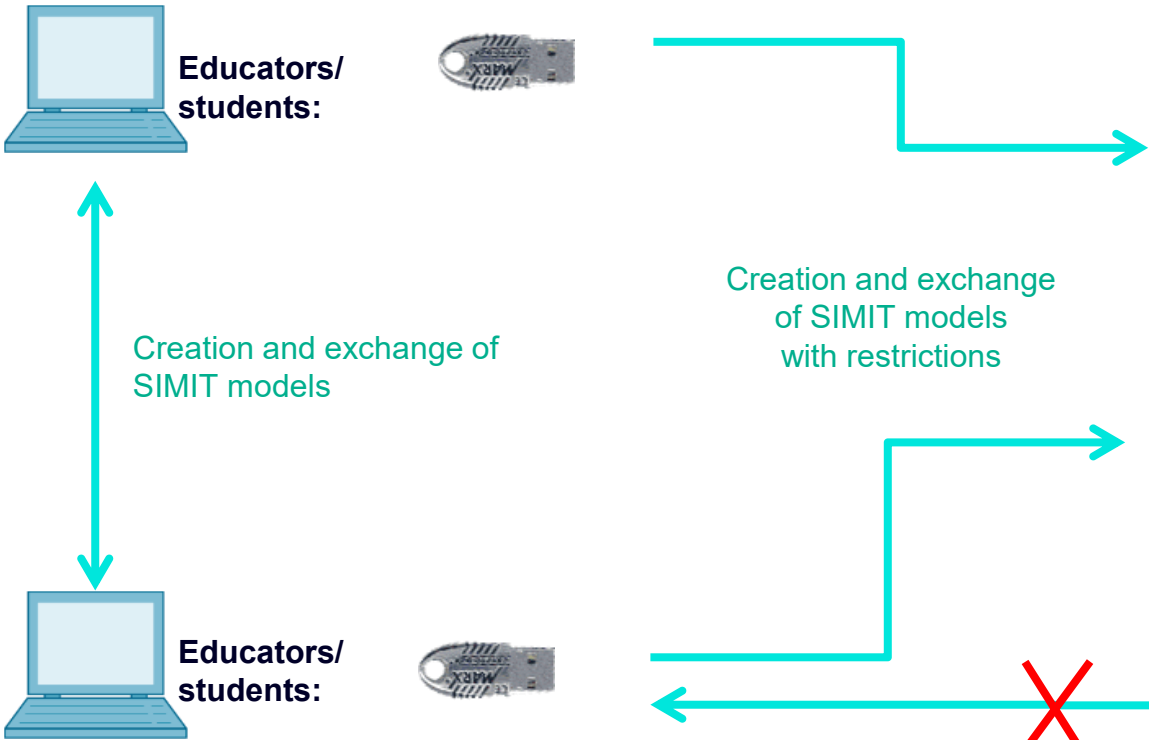
SIMIT demo version ✗

Students (demo version without dongle):

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

Creation and exchange of SIMIT models

Creation and exchange
of SIMIT models
with restrictions

Creation and exchange of
SIMIT models

Created
SIMIT models

SIMIT with SIMIT dongle B

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

SIEMENS

Basic automation
Overview 1/2

Product	Hardware	Licenses	Delivery form	Version	Order number (MLFB)	Note
LOGO! 8 12/24V ETHERNET with digital modules DM8 12/24R	6	6	DVD		6ED1057-3SA20-0YA1	NEW O
LOGO! 8 230V ETHERNET with digital modules DM8 230R	6	6	DVD		6ED1057-3SA20-0YB1	NEW O
LOGO! 8 12/24V ETHERNET without digital modules DM8 12/24R	9	9	DVD		6ED1057-3SA30-0YA1	NEW O
Basic Controller SIMATIC S7-1200 – CPU 1215C; DC/DC/DC	6	6	DVD	V20	6ES7215-1AG40-4AB1	NEW O
Basic Controller SIMATIC S7-1200 – CPU 1215C; AC/DC/RELAIS	6	6	DVD	V20	6ES7215-1BG40-4AB1	NEW O
Basic Controller SIMATIC S7-1200 – CPU 1215C; DC/DC/RELAIS	6	6	DVD	V20	6ES7215-1HG40-4AB1	NEW O
Upgrade SIMATIC TIA Portal Engineering Software STEP 7 Basic for S7-1200 as of V10.5		6	DVD	V20	6ES7822-0AA24-4YE5	NEW O
Upgrade SIMATIC TIA Portal Engineering Software STEP 7 Basic for S7-1200 as of V10.5		6	OSD	V20	6ES7822-0AE24-4YE5	NEW O

O   Relevant Information: https://support.industry.siemens.com/cs/ww/en/view/65601780

Overview I Graphic

SIEMENS

Basic automation
Overview 2/2

Product	Hardware	Licenses	Delivery form	Version	Order number (MLFB)	Note
SIMATIC HMI KTP400 Basic Color Panel for LOGO! 7/8	1	1	DVD	V20	6AV2123-2DB03-0AA1	NEW ○
SIMATIC HMI KTP400 Basic Color Panel for LOGO! 7/8	6	6	DVD	V20	6AV2123-2DB03-0AA0	NEW ○
SIMATIC HMI MTP400 Unified Basic Color Panel for LOGO! 8	1	1	DVD	V20	In preparation (approx. 07/2025)	○
SIMATIC HMI MTP400 Unified Basic Color Panel for LOGO! 8	6	6	DVD	V20	In preparation (approx. 07/2025)	○
SIMATIC HMI KTP700 Basic Color Panel for S7-1200	1				6AV2123-2GB03-0AA1	○
SIMATIC HMI KTP700 Basic Color Panel for S7-1200	6				6AV2123-2GB03-0AA0	○
SIMATIC HMI MTP700 Unified Basic Color Panel for S7-1200	1				In preparation (approx. 07/2025)	○
SIMATIC HMI MTP700 Unified Basic Color Panel for S7-1200	6				In preparation (approx. 07/2025)	○

○ Relevant Information: https://support.industry.siemens.com/cs/ww/en/view/65601780

Overview I Graphic

SIEMENS

LOGO! 8 12/24V or 230V
with ETHERNET interface and digital modules DM8

LOGO! 12/24V

6x LOGO! 12/24 RCE	6ED1052-1MD08-0BA2
6x LOGO! DM8 12/24R expansion module	6ED1055-1MB00-0BA2
6x LOGO! Soft Comfort V8	6ED1058-0BA08-0YA1

LOGO! 230V

6x LOGO! 230 RCE	6ED1052-1FB08-0BA2
6x LOGO! DM8 230R expansion module	6ED1055-1FB00-0BA2
6x LOGO! Soft Comfort V8	6ED1058-0BA08-0YA1

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

Recommended accessories

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

6XV1870-3RH60
SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

6GK1950-0BB00
Trainer Package: FastConnect cable set

6EP3333-6SB00-0AY0
LOGO!POWER EX 24 V/4 A stabilized power supply input: 100-240 V AC output: 24 V DC/4 A

System requirements:	Windows 7, 8 (64 Bit), Windows 10 (32 Bit/64 Bit) and Windows 11 Mac OSx 10.14-15, 11, 12.1 Mojave up to and including Monterey, SUSE Linux 15 (64 bit), Java Runtime Enviroment Amazon Corretto 11.0.13.8.1 (recommended version)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	ETHERNET cable required
Order number:	12/24V: 6ED1057-3SA20-0YA1 6ED1057-3SA20-0YB1

Core product for vocational World Cup Industrial Control ↗

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

SIEMENS

LOGO! 8 12/24V
with ETHERNET interface without digital modules DM8

LOGO! 9 set

9x LOGO! 12/24 RCE	6ED1052-1MD08-0BA2
9x LOGO! Soft Comfort V8	6ED1058-0BA08-0YA1

Recommended accessories

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

6XV1870-3RH60
SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

6GK1950-0BB00
Trainer Package: FastConnect cable set

6EP3333-6SB00-0AY0
LOGO!POWER EX 24 V/4 A stabilized power supply input: 100-240 V AC output: 24 V DC/4 A

System requirements:	Windows 7, 8 (64 Bit), Windows 10 (32 Bit/64 Bit) and Windows 11 Mac OSx 10.14-15, 11, 12.1 Mojave up to and including Monterey, SUSE Linux 15 (64 bit), Java Runtime Enviroment Amazon Corretto 11.0.13.8.1 (recommended version)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	ETHERNET cable required
Order number:	6ED1057-3SA30-0YA1

- ► IOT2000
- ► Industrial Controls
- ► Engineering SW
- ► Process Automation
- ► SIMIT Simulation
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- ► PLM Software
- ► WorldSkills
- ► Ordering Inform.

Overview I Graphic

SIEMENS

Basic Controller SIMATIC S7-1200, CPU 1215C
DC/DC/DC, AC/DC/RELAY, DC/DC/RELAY

Package contains 6 of each:

Compact CPU S7-1215C
Type depends on package

ETHERNET cable

STEP 7 Basic

Recommended accessories
6EP1332-1SH71 SIMATIC S7-1200 Power Module PM1207, stabilized power supply input: 120/230 V AC, output: DC 24 V/2.5 A

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise and Home 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	Authorization on USB stick
Order number:	**DC/DC/DC Package** 6ES7215-1AG40-4AB1 **AC/DC/RELAIS Package** 6ES7215-1BG40-4AB1 **DC/DC/RELAIS Package** 6ES7215-1HG40-4AB1

► IOT2000
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► WorldSkills
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Overview I Graphic

↗ TIA Portal

SIEMENS

Basic Controller SIMATIC S7-1200, CPU 1215C
DC/DC/DC, AC/DC/RELAY, DC/DC/RELAY

6 x **Alternative 1: → DC/DC/DC Package:**
SIMATIC S7-1200, CPU 1215C, compact CPU, DC/DC/DC, 2 PROFINET ports,
onboard IO: 14 DI 24 V DC; 10 DQ 24 V DC; 0.5A; 2 AI 0-10 V DC, 2 AQ 0-20 mA DC,
Power supply: 20.4-28.8 V DC, program/data memory 125 KB

6ES7215-1AG40-0XB0

6 x **Alternative 2: → AC/DC/RELAY Package:**
SIMATIC S7-1200, CPU 1215C, compact CPU, AC/DC/Relay, 2 PROFINET ports,
Onboard IO: 14 DI 24 V DC; 10 DQ Relay 2A, 2 AI 0-10V DC, 2 AQ 0-20mA DC,
Power supply: 85-264V AC at 47-63 Hz, program/data storage 125 KB

6ES7215-1BG40-0XB0

6 x **Alternative 3: → DC/DC/RELAY Package**
SIMATIC S7-1200, CPU 1215C, compact CPU, DC/DC/Relay, 2 PROFINET ports,
Onboard IO: 14 DI 24 V DC; 10 DQ Relay 2A, 2 AI 0-10V DC, 2 AQ 0-20mA DC,
Power supply: 20.4-28.8 V DC, program/data memory 125 KB

6ES7215-1HG40-0XB0

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6 x SIMATIC STEP 7 Basic; floating license; engineering software in TIA Portal; software and
documentation on DVD; license key on USB flash drive; class A; 9 languages: en, de, zh
included, fr, es, it, ru, jp, kr as download for project engineering of SIMATIC Basic Panels

6ES7822-0AA24-0YA5

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

6XV1870-3RH60

▶ IOT2000
▶ Industrial Controls
▶ Engineering SW
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↗ TIA Portal

SIEMENS

Upgrade SIMATIC STEP 7 Basic for SIMATIC S7-1200/Basic Panels Engineering and runtime software for training
6er classroom license

SIMATIC STEP 7 Basic V20 upgrade – as of V10.5

Software and documentation on DVD

License key on USB; 9 languages: de, en, zh included as well as fr, es, it, ru, jp, kr as download

For configuring SIMATIC S7-1200/Basic Panels

SINAMICS Startdrive Basic license V20
for SINAMICS G120 CONTROL UNIT CU240E-2, CU250S-2 as of Firmware V4.6

Packaging 1 x DVD per package
SIMATIC STEP 7 Basic V20
PLCSIM V20
SINAMICS start drive V20

Totally Integrated Automation **PORTAL**

Check HW compatibility for TIA Portal ↗

All others DVDs   → Download

WinCC Panel Images → Download

Note for SIMATIC STEP 7 Basic software: Only for hardware S7-1200, Basic Panel MTP400/KTP400 **and** MTP700/KTP700

**Important note on Online Software Delivery (OSD) = Software download via email address of the end user,
e.g. educators/installer in educational institutions, not the distributor.**

System requirements:	WIN 10/11 (64 Bit) Prof., Enterprise and Home 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)		Core product for vocational World Cup Industrial Control ↗
Sales note:	Schools, colleges and universities, for internal vocational company training centers		
Technical note:	Authorization on USB stick or part of the OSD download		
Order number:	Upgrade 6ES7822-0AA24-4YE5	Upgrade 6ES7822-0AE24-4YE5	

worldskills

- ► IOT2000
- ► Industrial Controls
- ► Engineering SW
- ► Process Automation
- ► SIMIT Simulation
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SIEMENS

SIMATIC HMI KTP400 Basic Color Panel for LOGO!
ETHERNET

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

SCALANCE
XB005
6GK5005-0BA00-1AB2

SIMATIC WinCC Basic
Engineering SW
6AV2100-0AA02-4AA5

ETHERNET cable
6XV1870-3RH60

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

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

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

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

▶ IOT2000
▶ Industrial Controls
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↗ TIA Portal

SIEMENS

SIMATIC KTP400 Basic Color Panel for LOGO!
ETHERNET 1er

1 x SIMATIC KTP400 Basic Color PN, key and touch operation, 4" TFT display, 65536 colors, PROFINET interface   **6AV2123-2DB03-0AX0**
configurable as of WinCC Basic V13/STEP 7 Basic V13

1 x SCALANCE XB005, unmanaged Industrial ETHERNET switch for 10/100 Mbps;   **6GK5005-0BA00-1AB2**
with 5 x 10/100 Mbps twisted pair ports with RJ45 sockets; for configuring small star
and line topologies; LED diagnostics, IP20, 24 V DC power supply, including manual

2 x SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m   **6XV1870-3RH60**

1 x SIMATIC WinCC Basic, engineering software in the TIA Portal; floating license; software and documentation on   **6AV2100-0AA02-4AA5**
DVD; license key on USB flash drive; class A; 6 languages: en, de, fr, es, it, zh; for configuration of SIMATIC
Basic Panels. Please observe product release: support.industry.siemens.com entry ID: 109795525

System requirements:	WIN 10/11 (64 Bit) Prof., Enterprise and Home 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	Authorization for WinCC Basic on USB stick
Order number:	6AV2123-2DB03-0AA1

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

Overview I Graphic

SIEMENS

SIMATIC HMI KTP400 Basic Color Panel for LOGO!
ETHERNET 6er

6 x   SIMATIC KTP400 Basic Color PN, key and touch operation, 4" TFT display, 65536 colors, PROFINET interface   **6AV2123-2DB03-0AX0**
configurable as of WinCC Basic V13/STEP 7 Basic V13

6 x   SCALANCE XB005, unmanaged Industrial ETHERNET switch for 10/100 Mbps;   **6GK5005-0BA00-1AB2**
with 5 x 10/100 Mbps twisted pair ports with RJ45 sockets; for configuring small star
and line topologies; LED diagnostics, IP20, 24 V DC power supply, including manual

12 x   SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m   **6XV1870-3RH60**

6 x   SIMATIC WinCC Basic, engineering software in the TIA Portal; floating license; software and documentation on   **6AV2100-0AA02-4AA5**
DVD; license key on USB flash drive; class A; 6 languages: en, de, fr, es, it, zh; for configuration of SIMATIC
Basic Panels. Please observe product release: support.industry.siemens.com entry ID: 109813587

System requirements:	WIN 10/11 (64 Bit) Prof., Enterprise and Home 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	Authorization for WinCC Basic on USB stick
Order number:	6AV2123-2DB03-0AA0

Totally Integrated Automation PORTAL

Check HW compatibility for TIA Portal ↗

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

Overview I Graphic

↗ TIA Portal

SIEMENS

SIMATIC HMI MTP400 Unified Basic Color Panel for LOGO!
ETHERNET 1er

In preparation !

System requirements:	WIN 10/11 (64 Bit) Prof., Enterprise and Home 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)	
Sales note:	Schools, colleges and universities, for	
Technical note:	Authorization for WinCC Basic on USB stick	
Order number:	In preparation (approx. 07/2025)	

Totally Integrated Automation **PORTAL**

Check HW compatibility for TIA Portal ↗

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

Overview I Graphic

SIEMENS

SIMATIC HMI MTP400 Unified Basic Color Panel for LOGO!
ETHERNET 6er

In preparation !

▶ IOT2000

▶ Industrial Controls

▶ Engineering SW

▶ Process Automation

▶ SIMIT Simulation

▶ Basic Automation

▶ Advanced Automation

▶ Distributed IOs

▶ Operator control & monitoring

▶ Industrial Communication

▶ Industrial Identification

System requirements:	WIN 10/11 (64 Bit) Prof., Enterprise and Home 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for
Technical note:	Authorization for WinCC Basic on USB stick
Order number:	In preparation (approx. 07/2025)

Totally Integrated Automation **PORTAL**

Check HW compatibility for TIA Portal ↗

▶ Drive Technology

▶ SinuTrain SW

▶ PLM Software

▶ WorldSkills

▶ Ordering Inform.

Overview I Graphic

↗ TIA Portal

SIEMENS

SIMATIC HMI KTP700 Basic Color Panel for S7-1200

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

SCALANCE
XB005
6GK5005-0BA00-1AB2

ETHERNET cable
6XV1870-3RH60

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

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

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

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

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

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

Overview I Graphic

↗ TIA Portal

SIEMENS

SIMATIC HMI KTP700 Basic Color Panel 1er

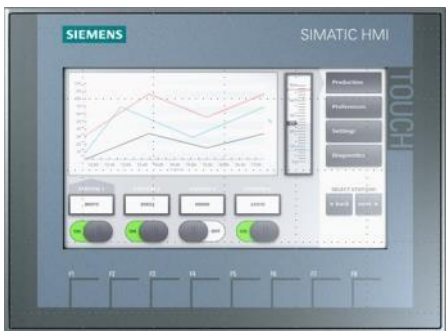1 x   SIMATIC KTP700, basic color panel, key and touch operation, 7" TFT display, 65536 colors,   6AV2123-2GB03-0AX0
       PROFINET interface, configurable as of WinCC Basic V13/STEP 7 Basic V13

1 x   SCALANCE XB005, unmanaged Industrial ETHERNET switch for 10/100 Mbps;   6GK5005-0BA00-1AB2
       with 5 x 10/100 Mbps twisted pair ports with RJ45 sockets; for configuring small star
       and line topologies; LED diagnostics, IP20, 24 V DC power supply, including manual

2 x   SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m   6XV1870-3RH60

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

System requirements:	None available
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	Configuration software required
Order number:	6AV2123-2GB03-0AA1

Totally
Integrated
Automation
PORTAL

Check HW compatibility
for TIA Portal ↗

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

Overview I Graphic   ↗ TIA Portal   **SIEMENS**

SIMATIC HMI KTP700 Basic Color Panel 6er

6 x SIMATIC KTP700, basic color panel, key and touch operation, 7" TFT display, 65536 colors, PROFINET interface, configurable as of WinCC Basic V13/STEP 7 Basic V13

6AV2123-2GB03-0AX0

6 x SCALANCE XB005, unmanaged Industrial ETHERNET switch for 10/100 Mbps; with 5 x 10/100 Mbps twisted pair ports with RJ45 sockets; for configuring small star and line topologies; LED diagnostics, IP20, 24 V DC power supply, including manual

6GK5005-0BA00-1AB2

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

6XV1870-3RH60

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

System requirements:	None available
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	Configuration software required
Order number:	6AV2123-2GB03-0AA0

Totally Integrated Automation **PORTAL**

Check HW compatibility for TIA Portal ↗

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

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↗ TIA Portal

SIEMENS

SIMATIC HMI MTP700 Unified Basic Color Panel 1er

In preparation !

System requirements:	None available
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	Configuration software required
Order number:	In preparation (approx. 07/2025)

Totally Integrated Automation **PORTAL**

Check HW compatibility for TIA Portal ↗

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

SIEMENS

SIMATIC HMI MTP700 Unified Basic Color Panel 6er

In preparation !

System requirements:	None available
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	Configuration software required
Order number:	In preparation (approx. 07/2025)

Totally Integrated Automation **PORTAL**

Check HW compatibility for TIA Portal ↗

▶ IOT2000

▶ Industrial Controls

▶ Engineering SW

▶ Process Automation

▶ SIMIT Simulation

▶ Basic Automation

▶ Advanced Automation

▶ Distributed IOs

▶ Operator control & monitoring

▶ Industrial Communication

▶ Industrial Identification

▶ Drive Technology

▶ SinuTrain SW

▶ PLM Software

▶ WorldSkills

▶ Ordering Inform.

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SIEMENS

Advanced Automation
Overview

Product	Hardware	Licenses	Delivery form	Version	Order number (MLFB)	Note
SIMATIC ET 200SP Open Controller CPU 1515SP PC2 F with WinCC RT Advanced 512 PTs	1	1	DVD	V20	6ES7677-2SB42-4AB1	NEW ○
SIMATIC ET 200SP Open Controller CPU 1515SP PC2 TF with WinCC RT Advanced 512 PTs	1	1	DVD	V20	6ES7677-2WB42-4AB1	NEW ○
SIMATIC ET 200SP Distributed Controller CPU 1512SP F-1 PN Safety	1	1	DVD	V20	6ES7512-1SK00-4AB2	NEW ○
SIMATIC CPU 1512C-1 PN	1	1	DVD	V20	6ES7512-1CK00-4AB6	NEW ○
SIMATIC CPU 1512C-1 PN with PM 1507	1	1	DVD	V20	6ES7512-1CK00-4AB1	NEW ○
SIMATIC CPU 1512C-1 PN with CP 1542-5 (CP PROFIBUS)	1	1	DVD	V20	6ES7512-1CK00-4AB7	NEW ○
SIMATIC CPU 1512C-1 PN with PM 1507 and CP 1542-5 (CP PROFIBUS)	1	1	DVD	V20	6ES7512-1CK00-4AB2	NEW ○
SIMATIC CPU 1517TF-3 PN/DP Safety without IOs (must be purchased separately)	1	1	DVD	V20	6ES7517-3UP00-4AB1	NEW ○
SIMATIC CPU 1516F-3 PN/DP Safety	1	1	DVD	V20	6ES7516-3FN00-4AB2	NEW ○
SIMATIC CPU 1516-3 PN/DP	1	1	DVD	V20	6ES7516-3AN00-4AB3	NEW ○

○   Relevant Information: https://support.industry.siemens.com/cs/ww/en/view/65601780

SIEMENS

ET 200SP Open Controller – Second Generation
CPU 1515SP PC2 F with S7-1500 SW Controller and WinCC RT Advanced 512 PTs

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

BusAdapter

2 x DI 8x24 VDC/ 0.5A HF

2 x DQ 8x24 VDC/ 0.5A HF

4 x BaseUnits

1 x ETHERNET cable

1 x STEP 7 Professional incl. ODK + Target 1500S for Simulink and WinCC Advanced/Unified Engineering and Runtime SW for Training

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

Recommended accessories

6ES7134-6PA01-0CU0
Analog input module, AI Energy Meter

6ES7193-6BP00-0DU0
BaseUnit

6ES7193-6SC20-1AM0
5 shielding terminals

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

6ES7193-6BP00-0DA0
BaseUnit

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

6ES7193-6BP20-0DC0
BaseUnit

6GK1950-0BB00
Trainer Package: FastConnect cable set

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

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

Color-coded labels, labeling strips

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

NOTE: SIMATIC STEP 7 Professional ≥ V15 is absolutely necessary for configuration

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SIEMENS

ET 200SP Open Controller – Second Generation
CPU 1515SP PC2 F with S7-1500 SW Controller and WinCC RT Advanced 512 PTs

1 x	SIMATIC, standard mounting rail 35 mm, length 483 mm for 19" cabinet	6ES5710-8MA11
1 x	SIMATIC ET 200SP Open Controller, CPU 1515SP PC2 F + HMI 512PT, 8 GB RAM, 128 GB CFast with Windows 10 IoT Enterprise 64 bit, S7-1500 Fail-safe Software Controller CPU 1505SP F and WinCC Runtime Advanced pre-installed, with 512 PowerTags license, interfaces: 1x slot CFast, 1x slot SD/MMC, 1x connection for ET 200SP BusAdapter PROFINET, 1x 10/100/1000 Mbps ETHERNET, 2x USB 3.0; 2x USB 2.0, 1x DisplayPort, documentation on CFast, restore image on CFast	6ES7677-2SB42-0GL0
2 x	DI 8x24VDC/0.5A HF	6ES7131-6BF00-0CA0
2 x	DQ 8x24VDC/0.5A HF	6ES7132-6BF01-0CA0
1 x	BusAdapter 2x RJ45	6ES7193-6AR00-0AA0
4 x	BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog max 24 V DC/10 A)	6ES7193-6BP00-0DA0
1 x	Color-coded labels, 16 process terminals, gray/red, CC01, 10 units	6ES7193-6CP01-2MA0
1 x	1000 labeling strips, light gray, 10 sheets DIN A4, perforated, paper	6ES7193-6LA10-0AA0
1 x	Color-coded labels, 16 process terminals, gray/blue, CC02, 10 units	6ES7193-6CP02-2MA0
1 x	SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m	6XV1870-3RH60
1 x	STEP 7 Professional incl. ODK + Target 1500S for Simulink and WinCC Advanced/Unified Engineering and Runtime SW for Training	6ES7822-1AA24-4YA5

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	SIMATIC STEP 7 Professional from V15 required
Order number:	6ES7677-2SB42-4AB1

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

SIEMENS

ET 200SP Open Controller – Second Generation
CPU 1515SP PC2 TF with S7-1500 SW Controller & WinCC RT Advanced 512 PTs

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

BusAdapter

2 x DI 8x24 VDC/ 0.5A HF

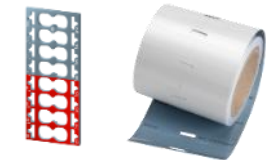2 x DQ 8x24 VDC/ 0.5A HF

4 x BaseUnits

1 x ETHERNET cable

1 x STEP 7 Professional incl. ODK + Target 1500S for Simulink and WinCC Advanced/Unified Engineering and Runtime SW for Training

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

Recommended accessories

6ES7134-6PA01-0CU0
Analog input module, AI Energy Meter

6ES7193-6BP00-0DU0
BaseUnit

6ES7193-6SC20-1AM0
5 shielding terminals

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

6ES7193-6BP00-0DA0
BaseUnit

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

6ES7193-6BP20-0DC0
BaseUnit

6GK1950-0BB00
Trainer Package: FastConnect cable set

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

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

Color-coded labels, Labeling strips

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

NOTE: SIMATIC STEP 7 Professional ≥ V15 is absolutely necessary for configuration

SIEMENS

ET 200SP Open Controller – Second Generation
CPU 1515SP PC2 TF with S7-1500 SW Controller & WinCC RT Advanced 512 PTs

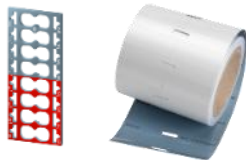|		
1 x	Standard mounting rail 35 mm, length 483 mm, for 19" cabinet	6ES5710-8MA11
1 x	SIMATIC ET 200SP Open Controller, CPU 1515SP PC2 TF + HMI 512PT, 8 GB RAM, 128 GB CFast with Windows 10 IoT Enterprise 64 bit, S7-1500 Fail-safe Software Controller CPU 1505SP TF and WinCC Runtime Advanced pre-installed, with 512 PowerTags license, interfaces: 1x slot CFast, 1x slot SD/MMC, 1x connection for ET 200SP BusAdapter PROFINET, 1x 10/100/1000 Mbps ETHERNET, 2x USB 3.0; 2x USB 2.0, 1x DisplayPort, documentation on CFast, restore image on CFast	6ES7677-2SB42-0GL0
2 x	DI 8x24VDC/0.5A HF	6ES7131-6BF00-0CA0
2 x	DQ 8x24VDC/0.5A HF	6ES7132-6BF01-0CA0
1 x	BusAdapter 2x RJ45	6ES7193-6AR00-0AA0
4 x	BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog max 24 V DC/10 A)	6ES7193-6BP00-0DA0
1 x	Color-coded labels, 16 process terminals, gray/red, CC01, 10 units	6ES7193-6CP01-2MA0
1 x	1000 labeling strips, light gray, 10 sheets DIN A4, perforated, paper	6ES7193-6LA10-0AA0
1 x	Color-coded labels, 16 process terminals, gray/blue, CC02, 10 units	6ES7193-6CP02-2MA0
1 x	SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m	6XV1870-3RH60
1 x	STEP 7 Professional incl. ODK + Target 1500S for Simulink and WinCC Advanced/Unified Engineering and Runtime SW for Training	6ES7822-1AA24-4YA5

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	SIMATIC STEP 7 Professional from V15 required
Order number:	6ES7677-2WB42-4AB1

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

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SIEMENS

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

1 x ET 200SP
Distributed Controller

BusAdapter

2 x DI 8x24
VDC/
0.5A HF

2 x DQ 8x24
VDC/
0.5A HF

4 x BaseUnits

1 x
ETHERNET
cable
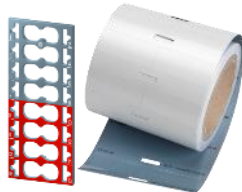
Color-coded labels,
Labeling strips

1 x Memory
Card 24 MB

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

Recommended accessories

6ES7134-6PA01-0CU0
Analog input module,
AI Energy Meter

6ES7193-6BP00-0DU0
BaseUnit

6ES7193-6SC20-1AM0
5 shielding terminals

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

6ES7193-6BP00-0DA0
BaseUnit

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

6ES7193-6BP20-0DC0
BaseUnit

6GK1950-0BB00
Trainer Package:
FastConnect cable set

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

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

1 x STEP 7 Professional and
WinCC Advanced/Unified
Engineering and Runtime
SW for Training

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

Overview I Graphic

↗ TIA Portal

SIEMENS

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

1 x Standard mounting rail 35 mm, length 483 mm for 19" cabinet	6ES5710-8MA11
1 x SIMATIC DP, CPU 1512SP F-1 PN for ET 200SP, central processing unit with 600 KB work memory for program and 2 MB for data, 1st interface: PROFINET IRT with 3-port switch, 6 ns bit performance, SIMATIC Memory Card required, BusAdapter required for port 1 and 2	6ES7512-1SM03-0AB0
1 x SIMATIC S7, Memory Card for S7-1X00 CPU/SINAMICS, 3,3 V Flash, 24 MB	6ES7954-8LF04-0AA0
2 x DI 8x24VDC/0.5A HF	6ES7131-6BF00-0CA0
2 x DQ 8x24VDC/0.5A HF	6ES7132-6BF01-0CA0
1 x BusAdapter 2x RJ45	6ES7193-6AR00-0AA0
4 x BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog max 24 V DC/10 A)	6ES7193-6BP00-0DA0
1 x Color-coded labels, 16 process terminals, gray/red, CC01, 10 units	6ES7193-6CP01-2MA0
1 x 1000 labeling strips, light gray, 10 sheets DIN A4, perforated, paper	6ES7193-6LA10-0AA0
1 x Color-coded labels, 16 process terminals, gray/blue, CC02, 10 units	6ES7193-6CP02-2MA0
1 x SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m	6XV1870-3RH60
1 x STEP 7 Professional and WinCC Advanced/Unified Engineering and Runtime SW for Training	6ES7822-1AA24-4YA5

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

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	SIMATIC STEP 7 Professional and Safety Advanced from V18 required
Order number:	6ES7512-1SK00-4AB2

Core product for vocational World Cup Industrial Control ↗

worldskills

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

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SIEMENS

SIMATIC S7-1512C-1 PN

Trainer Package variants

	1 x CPU 1512C-1 PN	1 x Memory Card 24 MB	1 x SIMATIC S7-1500, mounting rail 482 mm	1 x ETHERNET cable	STEP 7 Professional SW for training 1er license	1 x Power supply Input: 120/230 V AC; Output: 24 V DC, 8 A	1 x Communication processor (PROFIBUS) CP 1542-5	Order no.
	☑	☑	☑	☑	☑			6ES7512-1CK00-4AB6
	☑	☑	☑	☑	☑	☑		6ES7512-1CK00-4AB1
	☑	☑	☑	☑	☑		☑	6ES7512-1CK00-4AB7
	☑	☑	☑	☑	☑	☑	☑	6ES7512-1CK00-4AB2

Recommended accessories

6XV1870-3RH60
SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45,
CAT 6 A, crossed TP cable 4x2, length 6 m

6GK1950-0BB00
Trainer Package:
FastConnect cable set

Core product for vocational World Cup Industrial Control ↗

worldskills

SIMATIC STEP 7 Professional ≥ V13 SP1 Update 4 is absolutely necessary for configuration

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

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SIEMENS

SIMATIC S7-1512C-1 PN
without power supply/without CP for PROFIBUS DP

1 x SIMATIC S7-1500 compact CPU, CPU 1512C-1 PN, central processing unit with work memory: 400 KB for program and 2 MB for data, 32 digital inputs, 32 digital outputs, 5 analog inputs, 2 analog outputs, 6 high-speed counters, 4 fast outputs for PTO/PWM/frequency output, 1st interface: PROFINET IRT with 2-port switch, 6 ns bit performance, including front connector push-in, SIMATIC Memory Card required — 6ES7512-1CM03-0AB0

1 x SIMATIC S7-1500, mounting rail, 482 mm (approx. 19 inches) including grounding screw, integrated DIN rail for mounting of components such as terminals, miniature circuit breakers and relays — 6ES7590-1AE80-0AA0

1 x SIMATIC S7, Memory Card for S7-1X00 CPU/SINAMICS, 3.3 V Flash, 24 MB — 6ES7954-8LF04-0AA0

1 x SIMATIC NET, Industrial ETHERNET XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m — 6XV1870-3RH60

1 x STEP 7 Professional and WinCC Advanced/Unified Engineering and Runtime SW for Training — 6ES7822-1AA24-4YA5

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	SIMATIC STEP 7 Professional and Safety Advanced as of V13 SP1 Update 4 required
Order number:	6ES7512-1CK00-4AB6

Core product for vocational World Cup Industrial Control ↗

worldskills

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

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↗ TIA Portal

SIEMENS

SIMATIC S7-1512C-1 PN
with power supply/without CP for PROFIBUS DP

1 x SIMATIC PM 1507 24 V/8 A stabilized power supply for SIMATIC S7-1500,   6EP1333-4BA00
    input: 120/230 V AC, output: 24 V DC/8 A

1 x SIMATIC S7-1500 compact CPU, CPU 1512C-1 PN, central processing unit with work memory: 6ES7512-1CM03-0AB0
    400 KB for program and 2 MB for data, 32 digital inputs, 32 digital outputs, 5 analog inputs, 2 analog outputs,
    6 high-speed counters, 4 fast outputs for PTO/PWM/frequency output, 1st interface: PROFINET IRT with 2-port
    switch, 6 ns bit performance, including front connector push-in, SIMATIC Memory Card required

1 x SIMATIC S7-1500, mounting rail, 482 mm (approx. 19 inches) including grounding screw, integrated DIN rail for   6ES7590-1AE80-0AA0
    mounting of small components such as terminals, miniature circuit breakers and relays

1 x SIMATIC S7, Memory Card for S7-1X00 CPU/SINAMICS, 3.3 V Flash, 24 MB   6ES7954-8LF04-0AA0

1 x SIMATIC NET, Industrial ETHERNET XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m   6XV1870-3RH60

1 x STEP 7 Professional and WinCC Advanced/Unified Engineering and Runtime SW for Training   6ES7822-1AA24-4YA5

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	SIMATIC STEP 7 Professional and Safety Advanced as of V13 SP1 Update 4 required
Order number:	6ES7512-1CK00-4AB1

Core product for vocational World Cup Industrial Control ↗

worldskills

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

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SIEMENS

SIMATIC S7-1512C-1 PN
without power supply/with CP for PROFIBUS DP

1 x SIMATIC S7-1500 compact CPU, CPU 1512C-1 PN, central processing unit with work memory: 400 KB for program and 2 MB for data, 32 digital inputs, 32 digital outputs, 5 analog inputs, 2 analog outputs, 6 high-speed counters, 4 fast outputs for PTO/PWM/frequency output, 1st interface: PROFINET IRT with 2-port switch, 6 ns bit performance, including front connector push-in, SIMATIC Memory Card required   **6ES7512-1CM03-0AB0**

1 x Communications processor CP 1542-5 for connection of SIMATIC S7-1500 to PROFIBUS DP, DPV1 master or DP slave, S7 and PG/OP communication, time-of-day synchronization, diagnostics, reduced quantity structure   **6GK7542-5FX10-0XE0**

1 x SIMATIC S7-1500, mounting rail, 482 mm (approx. 19 inches) including grounding screw, integrated DIN rail for mounting of small components such as terminals, miniature circuit breakers and relays   **6ES7590-1AE80-0AA0**

1 x SIMATIC S7, Memory Card for S7-1X00 CPU/SINAMICS, 3.3 V Flash, 24 MB   **6ES7954-8LF04-0AA0**

1 x SIMATIC NET, Industrial ETHERNET XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m   **6XV1870-3RH60**

1 x STEP 7 Professional and WinCC Advanced/Unified Engineering and Runtime SW for Training   **6ES7822-1AA24-4YA5**

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	SIMATIC STEP 7 Professional and Safety Advanced as of V13 SP1 Update 4 required
Order number:	6ES7512-1CK00-4AB7

Core product for vocational World Cup Industrial Control ↗

worldskills

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

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SIEMENS

SIMATIC S7-1512C-1 PN
with power supply/with CP for PROFIBUS DP

1 x SIMATIC PM 1507 24 V/8 A stabilized power supply for SIMATIC S7-1500, input: 120/230 V AC, output: 24 V DC/8 A — 6EP1333-4BA00

1 x SIMATIC S7-1500 compact CPU, CPU 1512C-1 PN, central processing unit with work memory: 400 KB for program and 2 MB for data, 32 digital inputs, 32 digital outputs, 5 analog inputs, 2 analog outputs, 6 high-speed counters, 4 fast outputs for PTO/PWM/frequency output, 1st interface: PROFINET IRT with 2-port switch, 6 ns bit performance, including front connector push-in, SIMATIC Memory Card required — 6ES7512-1CM03-0AB0

1 x Communications processor CP 1542-5 for connection of SIMATIC S7-1500 to PROFIBUS DP, DPV1 master or DP slave, S7 and PG/OP communication, time-of-day synchronization, diagnostics, reduced quantity structure — 6GK7542-5FX10-0XE0

1 x SIMATIC S7-1500, mounting rail, 482 mm (approx. 19 inches) including grounding screw, integrated DIN rail for mounting of small components such as terminals, miniature circuit breakers and relays — 6ES7590-1AE80-0AA0

1 x SIMATIC S7, Memory Card for S7-1X00 CPU/SINAMICS, 3.3 V Flash, 24 MB — 6ES7954-8LF04-0AA0

1 x SIMATIC NET, Industrial ETHERNET XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m — 6XV1870-3RH60

1 x STEP 7 Professional and WinCC Advanced/Unified Engineering and Runtime SW for Training — 6ES7822-1AA24-4YA5

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	SIMATIC STEP 7 Professional and Safety Advanced as of V13 SP1 Update 4 required
Order number:	6ES7512-1CK00-4AB2

Core product for vocational World Cup Industrial Control ↗

worldskills

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ Process Automation
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Advanced Automation
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
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SIEMENS

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

1 x CPU
1517TF-3 PN/DP

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

1 x Memory
Card 256 MB

1 x ETHERNET
cable

1 x SIMATIC S7-1500,
mounting rail 482 mm

1 x STEP 7 Professional and
WinCC Advanced/Unified
Engineering and Runtime
SW for Training

SIMATIC STEP 7 Professional ≥ V16 is absolutely necessary for configuration

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

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↗ TIA Portal

SIEMENS

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

1 x SIMATIC PM 1507 24 V/8 A stabilized power supply for SIMATIC S7-1500, input: 120/230 V AC, output: 24 V DC/8 A	6EP1333-4BA00
1 x SIMATIC S7-1500TF, CPU 1517TF-3 PN/DP, central processing unit with work memory 3 MB for program and 8 MB for data, 1st interface: PROFINET IRT with 2-port switch 2nd interface: ETHERNET, 3rd interface: PROFIBUS, 2 ns bit performance, SIMATIC Memory Card required	6ES7517-3UP00-0AB0
1 x SIMATIC S7-1500, mounting rail 482.6 mm (approx. 19 inch); incl. grounding screw, integrated DIN rail for mounting	6ES7590-1AE80-0AA0
1 x SIMATIC S7, Memory Card for S7-1X00 CPU, 3.3 V FLASH, 256 MB	6ES7954-8LL04-0AA0
1 x SIMATIC NET Industrial ETHERNET XP Cord RJ45/RJ45, CAT 6A, crossed TP cable 4x2, length 6 m	6XV1870-3RH60
1 x STEP 7 Professional and WinCC Advanced/Unified Engineering and Runtime SW for Training	6ES7822-1AA24-4YA5

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	SIMATIC STEP 7 Professional ≥ V16 required
Order number:	6ES7517-3UP00-4AB1

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

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↗ TIA Portal

SIEMENS

SIMATIC CPU 1516F-3 PN/DP Safety with software

1 x CPU
1516 F PN/DP

1 x Digital
input module
DI 32 x 24 V DC

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

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

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

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

4 x Front
connector 40-pin

1 x Memory
Card 24 MB

1 x ETHERNET
cable, 6 m

1 x S7-1500, mounting
rail 482 mm

1 x STEP 7 Professional and
WinCC Advanced/Unified
Engineering and Runtime
SW for Training

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

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

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SIEMENS

SIMATIC CPU 1516F-3 PN/DP Safety with software

1 x	SIMATIC PM 1507 24 V/8 A stabilized power supply, input: 120/230 V AC, output: 24 V DC/8 A	6EP1333-4BA00
1 x	SIMATIC S7-1500F, CPU 1516F-3 PN/DP, central processing unit with work memory 3 MB for program and 7.5 MB for data 1st interface: PROFINET IRT with 2-port switch, 2nd interface: PROFINET RT, 3rd interface: PROFIBUS, 6 ns bit performance, SIMATIC Memory Card required. Approvals and certificates according to entry 109817466 at support.industry.siemens.com to be considered!	6ES7516-3FP03-0AB0
1 x	SIMATIC S7-1500, digital input module DI 32 x 24V DC, 32 channels in groups of 16	6ES7521-1BL00-0AB0
1 x	SIMATIC S7-1500, digital output module DQ 32 X 24 V DC/0.5 A; 32 channels	6ES7522-1BL01-0AB0
1 x	SIMATIC S7-1500, analog input module AI 8 x U/I/RTD/TC, 16-bit resolution, 8 channels, in groups of 8	6ES7531-7KF00-0AB0
1 x	SIMATIC S7-1500, analog output module AQ 4 x U/I ST; 16-bit resolution, 4 channels in groups of 4	6ES7532-5HD00-0AB0
1 x	SIMATIC S7-1500, mounting rail, 482 mm	6ES7590-1AE80-0AA0
1 x	SIMATIC S7, Memory Card for S7-1X00 CPU/SINAMICS, 3.3 V FLASH, 24 MB	6ES7954-8LF04-0AA0
4 x	SIMATIC S7-1500, front connector, screw-type, 40-pin	6ES7592-1AM00-0XB0
1 x	SIMATIC NET, Industrial ETHERNET XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m	6XV1870-3RH60
1 x	STEP 7 Professional and WinCC Advanced/Unified Engineering and Runtime SW for Training	6ES7822-1AA24-4YA5

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	SIMATIC STEP 7 Professional and Safety Advanced V13 SP1 Update 4 required
Order number:	6ES7516-3FN00-4AB2

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

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SIEMENS

SIMATIC CPU 1516-3 PN/DP with software

1 x CPU
1516 F PN/DP

1 x Digital
input module
DI 32 x 24 V DC

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

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

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

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

4 x Front
connector 40-pin

1 x Memory
Card 24 MB

1 x ETHERNET
cable, 6 m

1 x S7-1500, mounting
rail 482 mm

1 x STEP 7 Professional and
WinCC Advanced/Unified
Engineering and Runtime
SW for Training

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

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

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SIEMENS

SIMATIC CPU 1516-3 PN/DP with software

1 x SIMATIC PM 1507 24 V/8 A stabilized power supply, input: 120/230 V AC, output: 24 V DC/8 **6EP1333-4BA00**

1 x SIMATIC S7-1500, CPU 1516-3 PN/DP, central processing unit with 2 MB work memory for program and 7.5 MB **6ES7516-3AP03-0AB0**
for data 1st interface: PROFINET IRT with 2-port switch, 2nd interface: PROFINET RT, 3rd interface: PROFIBUS,
6 ns bit performance, approvals and certificates according to entry 109817466 at support.industry.siemens.com
to be considered!

1 x SIMATIC S7-1500, digital input module DI 32 x 24V DC, 32 channels in groups of 16 **6ES7521-1BL00-0AB0**

1 x SIMATIC S7-1500, digital output module DQ 32 X 24VDC/0.5 A; 32 channels **6ES7522-1BL01-0AB0**

1 x SIMATIC S7-1500, analog input module AI 8 x U/I/RTD/TC, 8 channels in groups of 8 **6ES7531-7KF00-0AB0**

1 x SIMATIC S7-1500, analog output module AQ 4 x U/I ST; 4 channels in groups of 4 **6ES7532-5HD00-0AB0**

1 x SIMATIC S7-1500, mounting rail, 482 mm, incl. grounding screw, integrated DIN profile rail **6ES7590-1AE80-0AA0**

1 x SIMATIC S7, Memory Card for S7-1X00 CPU/SINAMICS, 3.3 V FLASH, 24 MB **6ES7954-8LF04-0AA0**

4 x SIMATIC S7-1500, front connector, screw-type, 40-pin **6ES7592-1AM00-0XB0**

1 x SIMATIC NET, Industrial ETHERNET XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m **6XV1870-3RH60**

1 x STEP 7 Professional and WinCC Advanced/Unified Engineering and Runtime SW for Training **6ES7822-1AA24-4YA5**

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	SIMATIC STEP 7 Professional V13 SP1 Update 4 required
Order number:	6ES7516-3AN00-4AB3

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

SIEMENS

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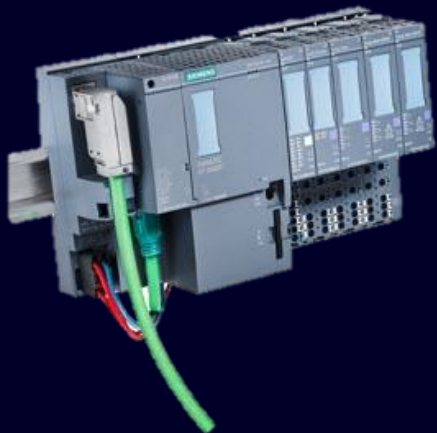
Product	Hardware	Licenses	Delivery form	Version	Order number (MLFB)	Note
SIMATIC ET 200SP digital PROFINET	1				6ES7155-6AU00-0AB0	
SIMATIC ET 200SP digital with input module ENERGY METER PN	1				6ES7155-6AU00-0AB1	
SIMATIC ET 200SP digital with communication module IO-LINK MASTER V1.1 PN	1				6ES7155-6AU00-0AB2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

SIEMENS

SIMATIC ET 200SP digital PROFINET

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

BusAdapter

2 x DI 8x24V DC HF

2 x DQ 8x24V DC/0.5A HF

4 x BaseUnits

Color-coded labels
Labeling strips

Recommended accessories

6XV1870-3RH60
SIMATIC NET Industrial ETHERNET, TP XP Cord
RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

6GK1950-0BB00
Trainer Package: FastConnect cable set

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

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SIEMENS

SIMATIC ET 200SP digital PROFINET

1 x Standard mounting rail 35 mm, length 483 mm for 19" cabinet	6ES5710-8MA11
1 x IM155-6PN HF including server module	6ES7155-6AU01-0CN0
2 x DI 8x24VDC HF	6ES7131-6BF00-0CA0
2 x DQ 8x24V DC/0.5 A HF	6ES7132-6BF01-0CA0
1 x BusAdapter 2x RJ45	6ES7193-6AR00-0AA0
4 x BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog, max. 24 V DC/10 A)	6ES7193-6BP00-0DA0
1 x Color-coded labels, 16 process terminals, gray/red, CC01, 10 units	6ES7193-6CP01-2MA0
1 x Color-coded labels, 16 process terminals, gray/blue, CC02, 10 units	6ES7193-6CP02-2MA0
1 x 1000 labeling strips, light gray, 10 sheets DIN A4, perforated, paper	6ES7193-6LA10-0AA0

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

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

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

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SIEMENS

SIMATIC ET 200SP digital with Energy Meter input module PN

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

BusAdapter

2 x DI 8x24V DC HF

2 x DQ 8x24V DC/
0.5A HF

4 x BaseUnits

Color-coded labels
Labeling strips

1 x AI Energy
Meter

1 x BaseUnit

1 x Shielding
terminals
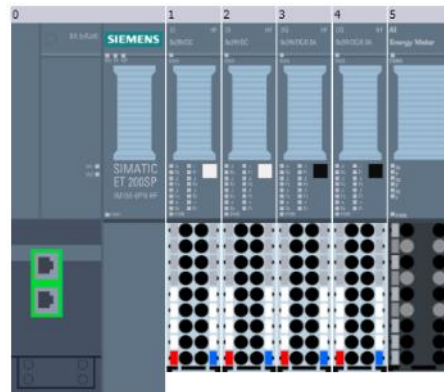
Recommended accessories

6XV1870-3RH60
SIMATIC NET Industrial ETHERNET, TP XP Cord
RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

6GK1950-0BB00
Trainer Package: FastConnect cable set

7KT1200
current transformer
AC 3x 60/5A

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ Process Automation
- ▶ SIMIT Simulation
- ▶ Basic Automation
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SIEMENS

SIMATIC ET 200SP digital with Energy Meter input module PN

1 x Standard mounting rail 35 mm, length 483 mm, for 19" cabinet	6ES5710-8MA11
1 x IM155-6PN HF including server module	6ES7155-6AU01-0CN0
2 x DI 8x24VDC HF	6ES7131-6BF00-0CA0
2 x DQ 8x24VDC/0.5A HF	6ES7132-6BF01-0CA0
1 x BusAdapter 2x RJ45	6ES7193-6AR00-0AA0
4 x BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog, max. 24 V DC/10 A)	6ES7193-6BP00-0DA0
1 x Color-coded labels, 16 process terminals, gray/red, CC01, 10 units	6ES7193-6CP01-2MA0
1 x 1000 labeling strips, light gray, 10 sheets DIN A4, perforated, paper	6ES7193-6LA10-0AA0
1 x Color-coded labels, 16 process terminals, gray/blue, CC02, 10 units	6ES7193-6CP02-2MA0
1 x analog input module, AI Energy Meter CT HF, for 1A or 5A current transformers	6ES7134-6PA01-0CU0
1 x Base unit BU20-P16+A0+2D, BU type U0, push-in terminals, without AUX terminals, new potential group	6ES7193-6BP00-0DU0
1 x Shielding terminals, 5 units	6ES7193-6SC20-1AM0

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

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

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SIEMENS

SIMATIC ET 200SP digital with IO-Link communication module

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

BusAdapter

2 x DI 8x24V DC HF

2 x DQ 8x24V DC/
0.5A HF

4 x BaseUnits

Color-coded labels
Labeling strips

1 x CM 4xIO-Link ST

1 x BaseUnit

IO-Link

Recommended accessories

6XV1870-3RH60
SIMATIC NET Industrial ETHERNET, TP XP Cord
RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

6GK1950-0BB00
Trainer Package: FastConnect cable set

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SIEMENS

SIMATIC ET 200SP digital with IO-Link communication module

1 x Standard mounting rail 35 mm, length 483 mm for 19" cabinet	6ES5710-8MA11
1 x IM155-6PN HF including server module	6ES7155-6AU01-0CN0
2 x DI 8x24VDC HF	6ES7131-6BF00-0CA0
2 x DQ 8x24VDC/0.5A HF	6ES7132-6BF01-0CA0
1 x BusAdapter 2x RJ45	6ES7193-6AR00-0AA0
4 x BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog, max. 24 V DC/10 A)	6ES7193-6BP00-0DA0
1 x Color-coded labels, 16 process terminals, gray/red, CC01, 10 units	6ES7193-6CP01-2MA0
1 x 1000 labeling strips, light gray, 10 sheets DIN A4, perforated, paper	6ES7193-6LA10-0AA0
1 x Color-coded labels, 16 process terminals, gray/blue, CC02, 10 units	6ES7193-6CP02-2MA0
1 x BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog, max. 24 V DC/10 A)	6ES7193-6BP00-0DA0
1 x CM 4xIO-Link ST	6ES7137-6BD00-0BA0
1 x Color-coded labels, 16 process terminals, gray/blue, CC04, 10 units	6ES7193-6CP04-2MA0

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

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

System requirements:	None available
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	STEP 7 as of V13 required
Order number:	6ES7155-6AU00-0AB2

IO-Link

Core product for vocational World Cup Industrial Control ↗

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SIEMENS

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

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

BusAdapter

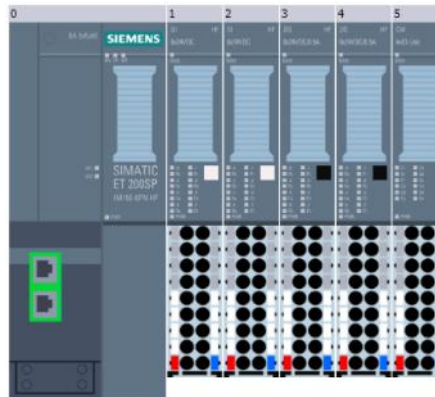2 x DI 8x24V DC HF

2 x DQ 8x24V DC/
0.5A HF

4 x BaseUnits

Color-coded labels
Labeling strips

1 x CM 4xIO-Link ST

1 x BaseUnit

Recommended accessories

6XV1870-3RH60
SIMATIC NET Industrial ETHERNET, TP XP Cord
RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m

6GK1950-0BB00
Trainer Package: FastConnect cable set

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SIEMENS

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

1 x standard mounting rail 35 mm, length 483 mm for 19" cabinet	6ES5710-8MA11
1 x IM155-6PN HF including server module	6ES7155-6AU01-0CN0
2 x DI 8x24V DC HF	6ES7131-6BF00-0CA0
2 x DQ 8x24V DC/0.5A HF	6ES7132-6BF01-0CA0
1 x BusAdapter 2x RJ45	6ES7193-6AR00-0AA0
4 x BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog, max. 24 V DC/10 A)	6ES7193-6BP00-0DA0
1 x Color-coded labels, 16 process terminals, gray/red, CC01, 10 units	6ES7193-6CP01-2MA0
1 x 1000 labeling strips, light gray, 10 sheets DIN A4, perforated, paper	6ES7193-6LA10-0AA0
1 x Color-coded labels, 16 process terminals, gray/blue, CC02, 10 units	6ES7193-6CP02-2MA0
1 x CM AS-i Master ST ET 200SP (AS-i V3.0)	3RK7137-6SA00-0BC1
1 x BU type C0, BU20-P6+A2+4D	6ES7193-6BP20-0DC0

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

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

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SIEMENS

SIMATIC ET 200SP Analog module expansion

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

2 x AI 2xU/I 2-/4-wire HS	6ES7134-6HB00-0DA1
1 x AQ 2xU/I HS	6ES7135-6HB00-0DA1
3 x BU type A0, 16 push-in, 2 infeed terminals (digital/analog, max. 24 V DC/10A)	6ES7193-6BP00-0DA0
1 x Shielding terminals, 5 units	6ES7193-6SC20-1AM0
1 x Color-coded labels, 16 process terminals, gray/red/blue, CC03, 10 units	6ES7193-6CP03-2MA0

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

1 x AQ 2xU/I HS

5 x Shielding terminals
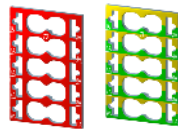
Color-coded labels

3 x BaseUnits

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

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SIMATIC ET 200SP Safety module expansion

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

1 x Electronic module F-DI 8x24V DC HF	6ES7136-6BA01-0CA0
1 x Electronic module F-DQ 4x24V DC/2A PM HF	6ES7136-6DB00-0CA0
1 x Electronic module F-RQ 24VDC/24..230V AC/5A	6ES7136-6RA00-0BF0
2 x BaseUnits BU type A0, 16 push-in, 2 infeed terminals separated (digital/analog, max. 24 V DC/10 A)	6ES7193-6BP00-0DA0
1 x BaseUnits BU type F0, push-in terminals, with 4 AUX terminals	6ES7193-6BP20-0BF0
1 x SIMATIC ET 200SP, 1000 labeling strips, yellow	6ES7193-6LA10-0AG0

1x F-DI
8x24VDC HF

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

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

Labeling
strips

3 x BaseUnits

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

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Operator control & monitoring
Overview

SW functionally identical to the industrial version

Product	Hardware	Licenses	Delivery form	Version	Order number (MLFB)	Note
SIMATIC HMI MTP700 Unified Comfort Panel	1	1	DVD	V20	6AV2128-3GB06-4AB1	NEW ⊙
SIMATIC HMI MTP1500 Unified Comfort Panel	1	1	DVD	V20	6AV2128-3QB06-4AB1	NEW ⊙
SCADA system SIMATIC WinCC with options → Only WIN10/11 (64-bit) Professional and Enterprise, Windows Server 2019, 2022 Standard, Datacenter		6	DVD	V8.1	6AV6371-1DH08-1AX5	NEW
SCADA system SIMATIC WinCC with options – ASIA → Only WIN10/11 (64-bit) Professional and Enterprise, Windows Server 2019, 2022 Standard, Datacenter		6	DVD	V8.1	6AV6371-1DH08-1AV5	NEW
Upgrade SCADA system SIMATIC WinCC with options from V1.0 → Only WIN10/11 (64-bit) Professional and Enterprise, Windows Server 2019, 2022 Standard, Datacenter		6	DVD	V8.1	6AV6381-1BP08-1AX3	NEW

⊙   Relevant Information: https://support.industry.siemens.com/cs/ww/en/view/65601780

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SIMATIC HMI MTP700/MTP1500 Unified Comfort Panels with PROFINET

1 x 7" SIMATIC HMI MTP700, Unified Comfort Panel **6AV2128-3GB06-0AX1**
touch operation, 7" widescreen TFT display, 16 million colors, PROFINET interface,
configurable from WinCC Unified Comfort V16, contains open source software,
which is provided free of charge, see enclosed Blu-Ray

1 x 15" SIMATIC HMI MTP1500, Unified Comfort Panel **6AV2128-3QB06-0AX1**
touch operation, 15.6" widescreen TFT display, 16 million colors, PROFINET interface,
configurable from WinCC Unified Comfort V16, contains open source software,
which is provided free of charge, see enclosed Blu-Ray

MTP 700/1500 can be configured with WinCC Unified from V16

Also included in the package:

1 x STEP 7 Professional and WinCC Advanced/Unified Engineering **6ES7822-1AA24-4YA5**
and Runtime SW for Training

1 x SIMATIC NET, Industrial ETHERNET XP Cord RJ45/RJ45, CAT 6 A, **6XV1870-3RH60**
crossed TP cable 4x2, length 6 m

WinCC Panel Images → Download

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	Authorization on USB stick
Order number:	6AV2128-3GB06-4AB1 (with MTP700) 6AV2128-3QB06-4AB1 (with MTP1500)

Totally Integrated Automation **PORTAL**

Check HW compatibility for TIA Portal ↗

Core product for vocational World Cup Industrial Control ↗

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SIEMENS

SCADA system SIMATIC WinCC V8.1 with options
6er classroom license

SCADA system SIMATIC WinCC V8.1 with options, additionally available as ASIA variant

6 x WinCC System software, RC 2048 (2048 Power Tags), Runtime/Configuration Software

6 x WinCC/User Archives

6 x WinCC/Connectivity Pack

6 x SIMATIC WinCC/Web Navigator, 3 Client Licenses (countable)

6 x SIMATIC WinCC/DataMonitor, 1 Client Licenses (countable)

6 x SIMATIC WinCC/Cloud Connect V8.1

Upgrade SCADA system SIMATIC WinCC with options from V1.0 to V8.1

6 x Upgrade WinCC System software, RC 2048 (2048 Power Tags), Runtime/Configuration Software

6 x Upgrade WinCC/User Archives

6 x Upgrade WinCC/Connectivity Pack

6 x Upgrade SIMATIC WinCC/Web Navigator, 3 client licenses (countable)

6 x Upgrade SIMATIC WinCC/DataMonitor, 1 client licenses (countable)

6 x SIMATIC WinCC/Cloud Connect V8.1

System requirements:	Only Windows 10/11 (64 bit) Professional and Enterprise, Windows Server 2019, 2022 Standard, Datacenter
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	Authorization on USB stick
Order number:	6AV6371-1DH08-1AX5 ASIA 6AV6371-1DH08-1AV5 Upgrade from V1.0,… to V8.1 6AV6381-1BP08-1AX3

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SIEMENS

Industrial communication
Overview

Product	Hardware	Licenses	Delivery form	Version	Order number (MLFB)	Note
FASTCONNECT cabel set	1				6GK1950-0BB00	
IE SCALANCE switch XC208	1				6GK1950-0BB12	O
IE SCALANCE S615 with software SINEMA RC Basic	1	1	DVD		6GK1950-0BB13	O
IE SCALANCE S615 LAN-router	2				6GK1950-0BB23	O
SIMATIC NET SINEC NMS 100		6	OSD	V3.0	6GK1950-0BB16	NEW O

O   Relevant Information: https://support.industry.siemens.com/cs/ww/en/view/65601780

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SIEMENS

FASTCONNECT cable set

1 x FastConnect
Stripping tool

2 X SIMATIC NET
IE FC RJ45
Plug connector

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

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

1x M12
Cable connector

1 x 50 meter, GP 2X2 TP
Installation cable

2x SIMATIC NET,
Industrial ETHERNET

► IOT2000

► Industrial Controls

► Engineering SW

► Process Automation

► SIMIT Simulation

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SIEMENS

FASTCONNECT cable set

1 x   FastConnect stripping tool   6GK1901-1GA00

2 x   SIMATIC NET IE FC RJ45 plug connector (10/100MBPS) with rugged metal housing
and FC connecting method for IE FC cable 2x2, 180 degree cable outlet, 1 pack = 10 pcs   6GK1901-1BB10-2AB0

4 x   SIMATIC NET IE FC RJ45 Plug 90 2x2, RJ45 plug connector (10/100 MBPS) with rugged
metal housing and FC connecting method for IE FC cable 2X2 90 degree cable outlet,
1 pack = 1 pcs   6GK1901-1BB20-2AA0

1 x   SIMATIC NET IE FC M12 Plug Pro M12 plug connector with axial cable outlet
1 pack = 8 pcs for SCALANCE X208 PRO and ET 200 PRO PN   6GK1901-0DB20-6AA8

1 x   M12 cable connection per socket for connection of SCALANCE W-700/X208PRO for 24 V DC
voltage supply, 3 pcs.   6GK1907-0DC10-6AA3

1 x   50 m flexible cable, GP 2x2 TP installation cable with flexible strand, PROFINET Type B, 4-wire   6XV1870-2B

2 x   SIMATIC NET Industrial ETHERNET, TP XP Cord RJ45/RJ45, CAT 6 A, crossed TP cable 4x2, length 6 m   6XV1870-3RH60

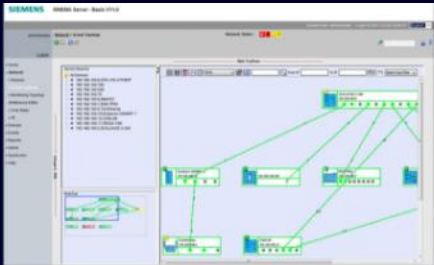|	
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	Authorization on USB stick
Order number:	6GK1950-0BB00

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SIEMENS

IE SCALANCE switch XC208/SIMATIC NET

1 x SCALANCE XC208

SCALANCE XC208 managed layer 2 IE switch; 8x 10/100 Mbps RJ45 ports;

1x console port; diagnostics LED; redundant power supply; temperature range -40 °C to +70 °C;

Mounting: DIN rail/S7 mounting rail/wall Office redundancy functions features (RSTP, VLAN,...);

PROFINET IO device ETHERNET/IP-compliant C-plug slot

6GK5208-0BA00-2AC2

1 x SIMATIC NET, C-PLUG

Removable data storage medium For simple device replacement in case of fault, for recording configuration or engineering and application data, can be used in the following SIMATIC NET products with C-plug slot: SCALANCE XC-200, XP-200, XM-400, XR-500, M-800, W-700, SC-600 and S615

6GK1900-0AB10

Recommended accessories

6XV1870-3RH60
Industrial ETHERNET TP XP Cord RJ45/RJ45, CAT 6A, crossed TP cable 4x2, pre-assembled with 2 RJ45 connectors, length 6 m

6GK5 980-3BB00-0AA5
Serial cable RJ11/RS232; pre-assembled serial cable with RJ11 and RS232 connector; length 3 m; 1 pack = 1 unit spare part

6GK1950-0BB00
Trainer Package: FastConnect cable set

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	None available
Order number:	6GK1950-0BB12

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SIEMENS

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

1 x SIMATIC NET SCALANCE S615 LAN ROUTER
For protection of devices/networks in automation technology and for protection of industrial communication by VPN and firewall; additional functions: address conversion (NAT/NAPT), connection to SINEMA RC, 5-port switch, 1 x digital input, 1 x digital output

6GK5615-0AA00-2AA2

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

6GK1720-1AH01-0BV0

1 x SINEMA RC Client V3 for 8 installations; Software, documentation on DVD, license key for server; 3 languages (de, en, zh)

6GK1721-1XG03-4AB1

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

6GK1722-1JH01-0BV0

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

6GK5908-0PB00

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

6XV1870-3RH60

Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	Authorization on USB stick
Order number:	6GK1950-0BB13

Core product for vocational World Cup Industrial Control ↗

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SIEMENS

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

2 x SIMATIC NET SCALANCE S615 LAN ROUTER
SCALANCE S615 LAN router; for protection of devices/networks in automation technology and for protection of industrial communication by VPN and firewall; additional functions: address conversion (NAT/NAPT), connection to SINEMA RC, 5-port switch, 1 x digital input, 1 x digital output
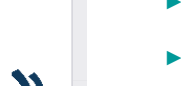
6GK5615-0AA00-2AA2

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

6GK5908-0PB00

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Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	None available
Order number:	6GK1950-0BB23

Core product for vocational World Cup Industrial Control ↗

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SIEMENS

SIMATIC NET Industrial Security Switch Technologies –
SIMATIC NET SINEC NMS 100

6 x SINEC NMS V3.0 Monitoring XS 3Y   6GK8781-1DD02-0AK1
Network management software for management of industrial networks including monitoring and
diagnostics functionality for up to 100 IP devices. Temporary license, runtime 36 months without
automatic extension. Delivery via OSD. Siemens expressly recommends using only the current
product versions.

6 x SINEC NMS V3.0 Configuration XS 3Y   6GK8781-1DD02-0AK2
Expansion of network management software to include the functionality configuration for
up to 100 IP devices. Temporary license, runtime 36 months without automatic extension.
Delivery via OSD. Requirement: valid SINEC NMS Monitoring XS license. Siemens expressly
recommends using only the current product versions.

!! Attention !!! Limited license, duration 36 months without automatic renewal.

Note: This article number can only be obtained as a download.

**Important note on Online Software Delivery (OSD) = Software download via email address of the end user,
e.g. educators/installer in educational institutions, not the distributor.**

Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	Part of the OSD download
Order number:	6GK1950-0BB16

Core product
for vocational
World Cup
Industrial
Control ↗

worldskills

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

Overview I Graphic   ↗ TIA Portal   **SIEMENS**

Industrial identification
Overview

Product	Hardware	Licenses	Delivery form	Version	Order number (MLFB)	Note
SIMATIC MV540 S code reader PROFINET	1				6GF3500-1TP03	○
SIMATIC RF200 RFID system PROFINET	1				6GT2096-3AA00-0AA1	○
SIMATIC RF200 RFID system IO-Link	1				6GT2096-5AA00-0AA0	○
SIMATIC RF300 RFID system PROFINET	1				6GT2096-1AA00-0AA1	○
SIMATIC RF600 RFID system PROFINET	1				6GT2811-6CC10-0XB0	○

○ Relevant Information: https://support.industry.siemens.com/cs/ww/en/view/65601780

SIMATIC MV540 S optical reader PROFINET

1 x MV540S optical reader

1 x Lens 25 mm

1 x Protection tube for lens

Built-in ring light

1 x Mounting plate

1 x Power-Data Cable

1 x IE Cable

1 x Pat-Genius;
Object recognition
license for MV540

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

Current firmware for SIMATIC MV500*:* ↗ Vx.x.x **; upgrading is recommended**

Overview I Graphic   ↗ Application example

SIEMENS

SIMATIC MV540 S optical reader PROFINET

1 x SIMATIC MV540 S optical reader resolution: 800 x 600 pixels; Function: 1D/2D code reading; Image field and distance: variable (depends on lens); PoE; IP67 with 6GF3540-8ADxx; Delivery: Reader and SD card adapter   **6GF3540-0CD10**

1 x MV440-MV500 mounting plate; material: stainless steel (4 mm), versatile use   **6GF3440-8CA**

1 x MINI-CX lens 25 mm, E-focus for MV500 devices   **6GF3540-8EA03-0LL0**

1 x D65 lens protection metal glass, degree of protection IP67 for MV440 and MV540 devices   **6GF3440-8AC11**

1 x Built-in ring light MV540 red multi for MV540 devices; incl. cross-polarization filter; lighting range up to 120 cm   **6GF3540-8DA13**

1 x Power-IO-DATA cable MV500 10 m for MV540 devices; M12 – 12-pin socket pre-assembled at one end, 10 m   **6GF3500-8BA21**

1 x IE connecting cable M12-180/IE FC RJ45 Plug-145; IE FC Trailing cable GP pre-assembled with M12 connector (D-coded) and IE FC RJ45 plug length 3.0 m.   **6XV1871-5TH30**

1 x Pat-Genius; Object detection license for MV540 code reading device; single license extends devices above with functionality for object detection and inspection   **6GF3400-0SL03**

Current firmware for SIMATIC MV500: ↗ Vx.x.x **; upgrading is recommended**

Suitability for operation
1D codes: Int. 2/5, Code 128, Code 93, Code 39, Code 32, EAN 13, EAN 8, UPC-A, UPC-E, GS1, Pharmacode, Postnet, 2D codes: DMC, dot code, PDF417 (without: Truncated, Micro and Macro), Q R (without: Micro and Macro), verification uncalibrated

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

- ► IOT2000
- ► Industrial Controls
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- ► Process Automation
- ► SIMIT Simulation
- ► Basic Automation
- ► Advanced Automation
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- ► Operator control & monitoring
- ► Industrial Communication
- ► Industrial Identification
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- ► SinuTrain SW
- ► PLM Software
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   Overview I Graphic   ↗ Application example   **SIEMENS**

SIMATIC RF200 RFID system PROFINET

2 x RF200 Reader
RF240R

1 x RFID Communication
Module RF186CI

1 x Power M12
cable connector

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

2 x SIMATIC RF,
MV connecting cable

5 x Transponder MDS
D428 for RF200/RF300

► IOT2000

► Industrial Controls

► Engineering SW

► Process Automation

► SIMIT Simulation

► Basic Automation

► Advanced Automation

► Distributed IOs

► Operator control &
monitoring

► Industrial
Communication

► Industrial
Identification

► Drive Technology

► SinuTrain SW

► PLM Software

► WorldSkills

► Ordering Inform.

Overview I Graphic

SIMATIC RF200 RFID system PROFINET

Qty	Description	Order No.
2 x	SIMATIC RF200 reader RF240R; RS422 interface (3964R); IP67, -25 to +70 °C; 50x 50x 30 mm; with integrated antenna	6GT2821-4AC10
1 x	RFID communication module RF186CI for PROFINET; ETHERNET, 2 readers can be connected; DI/DO interface	6GT2002-0JE50
1 x	Power M12 cable connector PRO axial cable outlet for field assembly, socket insert L-coded (socket)	6GK1906-0EB00
1 x	IE connecting cable M12-180/IE FC RJ45 Plug-145; IE FC trailing cable GP pre-assembled with M12 connector (D-coded) and IE FC RJ45 plug; length 2.0 m	6XV1871-5TH20
2 x	SIMATIC RF, MV plug-in cable, assembled, between ASM 456, RF160C, RF170C, RF18XC and reader or extension cable for ASM 456, RF160C, RF170C, RF18XC with RF, MV, MOBY PUR, trailing, length 2 m	6GT2891-4FH20
5 x	Transponder MDS D428 for RF200/RF300 ISO/MOBY D Screw transponder M8 long; ISO 15693, Chip type FUJITSU MB89R118, 2000 byte FRAM user memory 24x 20 mm (DxH); SW22	6GT2600-4AK00-0AX0

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	None available
Order number:	6GT2096-3AA00-0AA1

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

SIEMENS

SIMATIC RF200 RFID system IO-Link

2 x SIMATIC RF200 reader RF210R IO-Link interface V1.1; IP67, -25 to +70 °C; M18x 83 mm; with integrated antenna 32 bytes IO; 230 Kbps — **6GT2821-1BC32**

2 x SIMATIC RF IO-Link connecting cable, assembled, between IO-Link master and reader, M12 4-pin and open end, PUR, length 5m — **6GT2891-4LH50**

5 x Transponder MDS D428 for RF200/RF300 ISO/MOBY D screw transponder M8 long; ISO 15693, chip type FUJITSU MB89R118, 2000 byte FRAM user memory 24x 20 mm (DxH); SW22 — **6GT2600-4AK00-0AX0**

2 x SIMATIC RF200 reader
RF210R IO-Link interface

2 x Connecting cable
SIMATIC RF IO-Link

5 x Transponder MDS D428

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	None available
Order number:	6GT2096-5AA00-0AA0

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ Process Automation
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Advanced Automation
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Industrial Communication
- ▶ Industrial Identification
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Overview I Graphic

SIEMENS

SIMATIC RF300 RFID system PROFINET

Production plant

SIMATIC PCS 7
SIMATIC S7-400
SIMATIC RF180C
SIMATIC RF340R

SIMATIC RF340T

Purification plant CIP

SIMATIC MP370
SIMATIC S7-300
SIMATIC RF180C
SIMATIC RF340R

Tank monitoring by RFID nameplates,
documentation of process data

1 x RFID Communication
Module RF186CI for
PROFINET/ETHERNET

2 x SIMATIC RF,
MV plug-in cable

1 x Power M12
cable connector

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

2 x SIMATIC RF300;
Reader RF310R (GEN2)

5 x SIMATIC RF300
Transponder RF340T

▶ IOT2000
▶ Industrial Controls
▶ Engineering SW
▶ Process Automation
▶ SIMIT Simulation
▶ Basic Automation
▶ Advanced Automation
▶ Distributed IOs
▶ Operator control & monitoring
▶ Industrial Communication
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Overview I Graphic

SIEMENS

SIMATIC RF300 RFID system PROFINET

1 x RFID communication module RF186CI for PROFINET; ETHERNET, 2 readers can be connected; DI/DO interface — 6GT2002-0JE50

2 x SIMATIC RF, MV plug-in cable, assembled, between ASM 456, RF160C, RF170C, RF18XC and reader or extension cable for ASM 456, RF160C, RF170C, RF18XC with RF, MV, MOBY PUR, length 2 m — 6GT2891-4FH20

1 x Power M12 cable connector PRO axial cable outlet for field assembly, socket insert, L-coded (socket) — 6GK1906-0EB00

1 x IE connecting cable M12-180/IE FC RJ45 Plug-145; IE FC GP pre-assembled with M12 connector (D-coded) and IE FC RJ45 plug; length 2.0 m — 6XV1871-5TH20

2 x SIMATIC RF300; reader RF310R (GEN2); RS422 interface (3964R); IP67. -25 to +70 °C, 55x 75x 30 mm, with integrated antenna — 6GT2801-1BA10

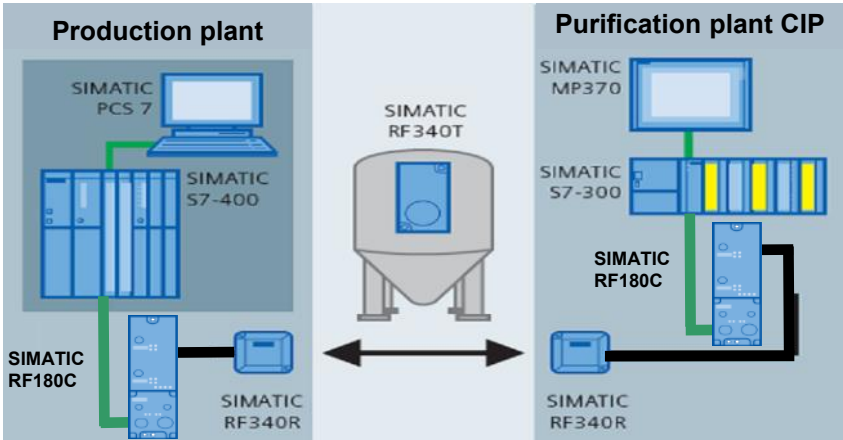5 x SIMATIC RF300 transponder RF340T 8 KB FRAM, IP67/X9K, -25 to +85 °C, 48x2 5x 15 mm — 6GT2800-4BB00

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	None available
Order number:	6GT2096-1AA00-0AA1

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

Overview I Graphic

SIEMENS

SIMATIC RF600 RFID system PROFINET

Application:

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

- ❹ Power supply via PoE
- SIMATIC S7-1500
- ❸ Trigger via light barrier to DI
- SIMATIC **RF615R**
- ❸ Separation via DO
- SIMATIC **RF615A**
- ID1
- ID2
- ID3
- ❷ Distributed small gate with **RF615A**
- ❶ Individual read point with **RF615R**
- SIMATIC **RF615R**

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

2 x SIMATIC RF615R
Reader 133x155x45mm
with internal antenna

2 x SIMATIC RF642A
Antenna 185x185x47mm

20 x SIMATIC RF645T
Transponder with
mounting cover

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

- ► IOT2000
- ► Industrial Controls
- ► Engineering SW
- ► Process Automation
- ► SIMIT Simulation
- ► Basic Automation
- ► Advanced Automation
- ► Distributed IOs
- ► Operator control & monitoring
- ► Industrial Communication
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SIMATIC RF600 RFID system PROFINET

2 x	UHF RFID reader RF615R ETSI with internal antenna	6GT2811-6CC10-0AA0
2 x	UHF RFID antenna RF642A	6GT2812-1GA08
4 x	Mounting for RF600 readers and antennas	6GT2890-2AB10
1 x	Wide-range power supply for connecting 2 RF600 readers	6GT2898-0AC81
1 x	Power cable for wide-range power supply	6GT2898-0AC01
2 x	Power supply cable for RF600 reader, 24 V, 5 m	6GT2891-0PH50
2 x	Industrial ETHERNET line, M12, RJ45, 5 m	6XV1871-5TH50
2 x	Antenna cable UHF RFID, 5 m, trailing	6GT2815-2BH50
20 x	UHF RFID transponder RF645T, mountable directly on metal	6GT2810-2HC05
20 x	Mounting cover for RF645T	6GT2898-5AA00

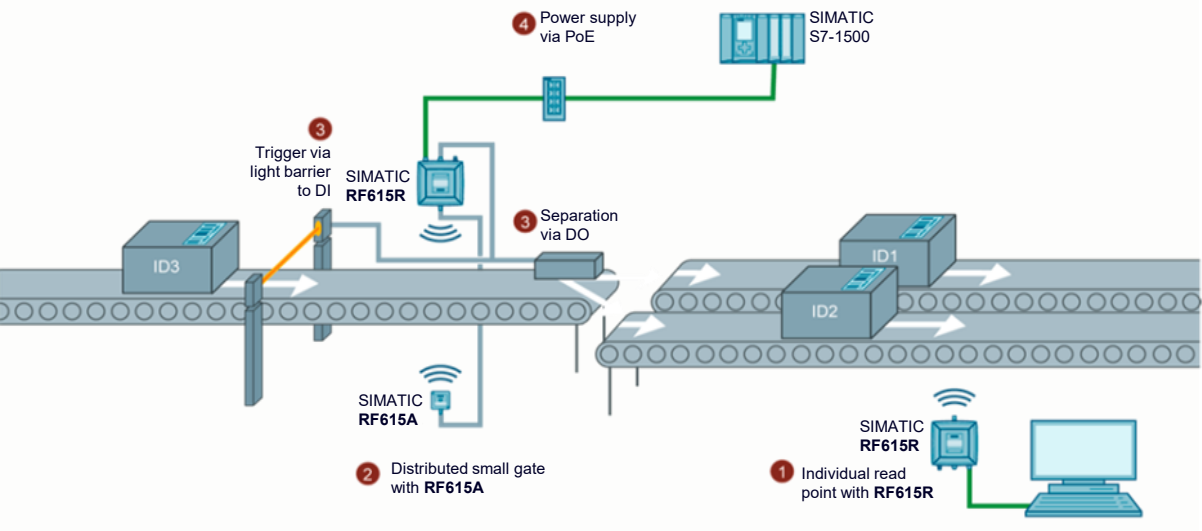|	
System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	None available
Order number:	6GT2811-6CC10-0XB0

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

Overview I Graphic

SIEMENS

Drive technology
Overview

Product	Hardware	Licenses	Delivery form	Version	Order number (MLFB)	Note
SINAMICS G120 standard drive for 230V AC single-phase with PROFINET	1				6SL3200-3AX00-0UL3	O
SINAMICS G120 standard drive for 400V AC three-phase with PROFINET	1				6SL3200-3AX00-0UL4	O
SINAMICS S210 servo drive for 200 - 240V AC single phase with PROFINET and servo motor	1				6SL5990-0AT30-0AB0	NEW O
SINAMICS S210 servo drive for 380 - 480V AC three phase with PROFINET and servo motor	1				6SL5990-0AT30-0AE0	NEW O
SINAMICS S120 servo drive for 230 V AC single-phase with PROFINET	1				6SL3080-8AB01-0AA0	O
SINAMICS S120 servo drive for 400 V AC three-phase with PROFINET	1				6SL3080-8AE01-0AA0	O

O Relevant Information: https://support.industry.siemens.com/cs/ww/en/view/65601780

Overview I Graphic   ↗ Learning Documents

SIEMENS

SINAMICS G120 standard drive 1 AC 230 V

Software
Startdrive/STARTER

Circuit breaker ⊗

G120 Trainer Package 1AC 230 V – 0.55 kW PROFINET

Asynchronous motor ⊗
i.e. with power: 0.55 kW
Third-party product e.g: ↗ Innomotics

■ PROFINET

PC converter connection kit

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

Power module
PM240-2 – 0.55kW
without EMC filter

S7 controller ⊗

Power line ⊗

⊗ Not part of the package

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

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	See slides below
Order number:	6SL3200-3AX00-0UL3

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

Overview I Graphic   ↗ Download STARTER   ↗ Download Startdrive   ↗ TIA Portal

SIEMENS

SINAMICS G120 standard drive 1 AC 230 V

1 x   SINAMICS power module PM240-2 unfiltered with integrated braking chopper 200-240 V 1/3AC+10/-10%   6SL3210-1PB13-8UL0
      47-63Hz power high overload: 0.55kW at 200% 3 s, 150% 57 s, 100% 240 s; Ambient temperature -10 to
      +50 °C; power low overload: 0.75kW at 150% 3 s, 110% 57 s, 100% 240 s; Ambient temperature -10 to +40 °C
      196x 73x 165 (HxWxD), FSA degree of protection IP20 without control unit and operating unit released as of CU
      firmware V4.6

1 x   SINAMICS G120 Control Unit CU250S-2 PN integrated; PROFINET support of vector control, easy positioning   6SL3246-0BA22-1FA0
      EPOS via extended function license; 4 configurable DI/DQ, 6 DI (3 F-DI), 5 DI, 3 DQ (1 F-DQ), 2 AI, 2 AQ; Safety
      Integrated STO, SBC, SS1 further safety functions via extended safety license encoder: D-CLIQ + HTL/TTL/SSI,
      resolver/HTL VIA terminal protection IP20 USB and SD/MMC interface

1 x   SINAMICS G120 shield connection kit 4 incl. shield plate and mounting elements for control units CU250S-2 variant: 6SL3264-1EA00-0LA0
      USS, CAN, DP, PN

1 x   SINAMICS G Intelligent Operator Panel IOP-2 for SINAMICS G120, G120P G110M, G110D, G120D, G120C   6SL3255-0AA00-4JA2
      ET 200PRO FC-2

1 x   SINAMICS G120 PC inverter connection kit 2 3 m USB cable for control units CU230P-2, CU240B-2,   6SL3255-0AA00-2CA0
      CU240E-2, CU250S-2 G110M and SINAMICS G120C

1 x   SINAMICS G120 SD card 512 MB including licensing (Certificate of License, stored on the card)   6SL3200-0AE20-0AX0
      G120 Extension function EPOS 1 x Safety License DBSI for SCE Trainer Packages only

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

Overview I Graphic

↗ TIA Portal

SIEMENS

SINAMICS G120 standard drive 1 AC 230 V
Optional software

STARTER   6SL3072-0AA00-0AG0
Commissioning tool for SINAMICS and MICROMASTER V5.6 HF2

STARTDRIVE   6SL3072-4KA02-0XG0
Engineering and commissioning tool for SINAMICS drives V20
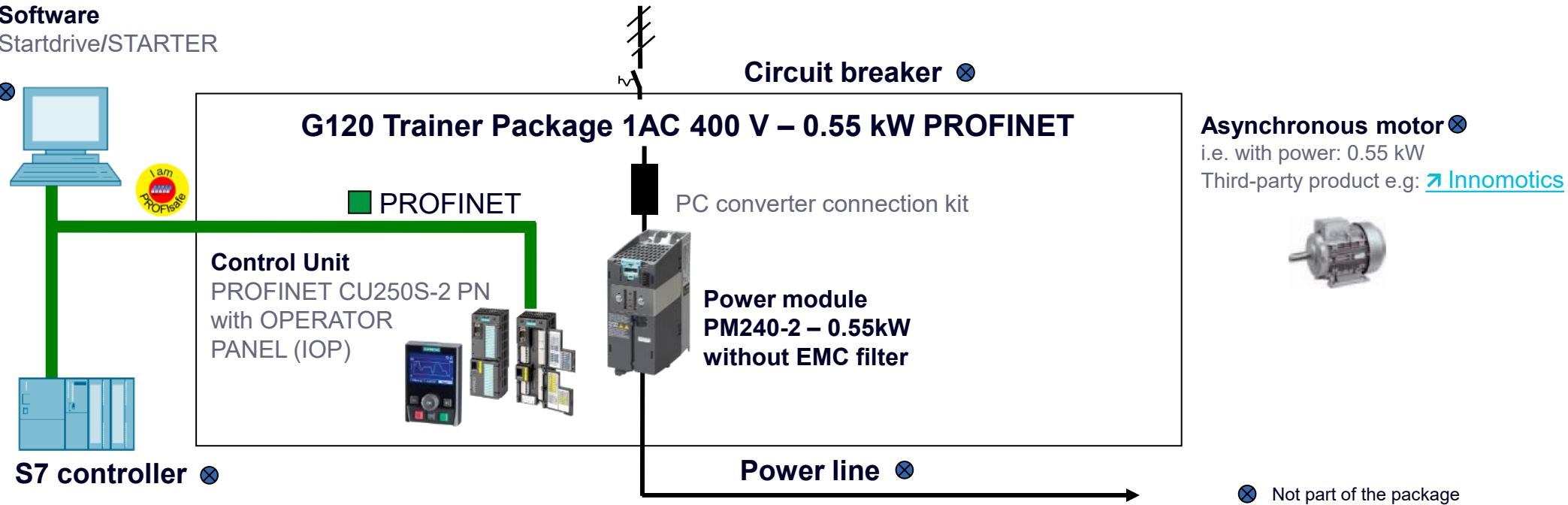
<div style="background: cyan;">

Note: This product is downloadable only.

</div>

SIZER for Siemens Drives → Download

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Note: STARTDRIVE is contained in the Trainer Package SIMATIC STEP 7 Professional Software for Training, see →

</div>

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ Process Automation
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Advanced Automation
- ▶ Distributed IOs
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- ▶ PLM Software
- ▶ WorldSkills
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SIEMENS

SINAMICS G120 standard drive 3 AC 400 V

Software
Startdrive/STARTER

Circuit breaker ⊗

G120 Trainer Package 1AC 400 V – 0.55 kW PROFINET

🟩 PROFINET

PC converter connection kit

Asynchronous motor ⊗
i.e. with power: 0.55 kW
Third-party product e.g: ↗ Innomotics

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

Power module
PM240-2 – 0.55kW
without EMC filter

S7 controller ⊗

Power line ⊗

⊗ Not part of the package

- ▶ IOT2000
- ▶ Industrial Controls
- ▶ Engineering SW
- ▶ Process Automation
- ▶ SIMIT Simulation
- ▶ Basic Automation
- ▶ Advanced Automation
- ▶ Distributed IOs
- ▶ Operator control & monitoring
- ▶ Industrial Communication
- ▶ Industrial Identification
- ▶ Drive Technology
- ▶ SinuTrain SW
- ▶ PLM Software
- ▶ WorldSkills
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System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	See slides below
Order number:	6SL3200-3AX00-0UL4

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

SIEMENS

SINAMICS G120 standard drive 3 AC 400 V

1 x   SINAMICS Power Module PM240-2 unfiltered with integrated braking chopper 380-480 V 3 AC +10/-10%   6SL3210-1PE12-3UL1
       47-63 Hz power high overload: 0.55kW at 200% 3 s, 150% 57 s, 100% 240 s; Ambient temperature -10 to +50 °C;
       power low overload: 0.75kW at 150% 3 s, 110% 57 s, 100% 240 s; Ambient temperature -10 to +40 °C
       196x 73x 165 (HxWxD), FSA degree of protection IP20 without control unit and operating unit released as
       of CU firmware version V4.6

1 x   SINAMICS G120 Control Unit CU250S-2 PN, integrated PROFINET supports vector control, basic positioner EPos   6SL3246-0BA22-1FA0
       via Extended Function license, 4 configurable DI/DO, 6 DI (3 F-DI), 5 DI, 3 DO (1 F-DQ), 2 AI, 2 AO Safety Integrated
       STO, SBC, SS1, further safety functions via Extended Function license, encoder: D-CLiQ + HTL/TTL/SSI,
       resolver/HTL via terminal protection IP20, USB and SD/MMC interface

1 x   SINAMICS G120 shield connection kit 4 incl. shield plate and mounting elements for control units CU250S-2 variant: 6SL3264-1EA00-0LA0
       USS, CAN, DP, PN

1 x   SINAMICS G Intelligent Operator Panel IOP-2 for SINAMICS G120, G120P G110M, G110D, G120D, G120C   6SL3255-0AA00-4JA2
       ET 200PRO FC-2

1 x   SINAMICS G120 PC inverter connection kit 2 3 m USB cable for control units CU230P-2 CU240B-2,   6SL3255-0AA00-2CA0
       CU240E-2, CU250S-2 G110M and SINAMICS G120C

1 x   SINAMICS G120 SD card 512 MB including licensing (Certificate of License, stored on the card)   6SL3200-0AE20-0AX0
       G120 Extension function EPOS 1 x Safety License DBSI for SCE Trainer Packages only

► IOT2000
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► WorldSkills
► Ordering Inform.

Overview I Graphic

↗ TIA Portal

SIEMENS

SINAMICS G120 standard drive 3 AC 400 V
Optional motors

STARTER
Commissioning tool for SINAMICS and MICROMASTER V5.6 HF 2

6SL3072-0AA00-0AG0

STARTDRIVE
Engineering and commissioning tool for SINAMICS drives V20
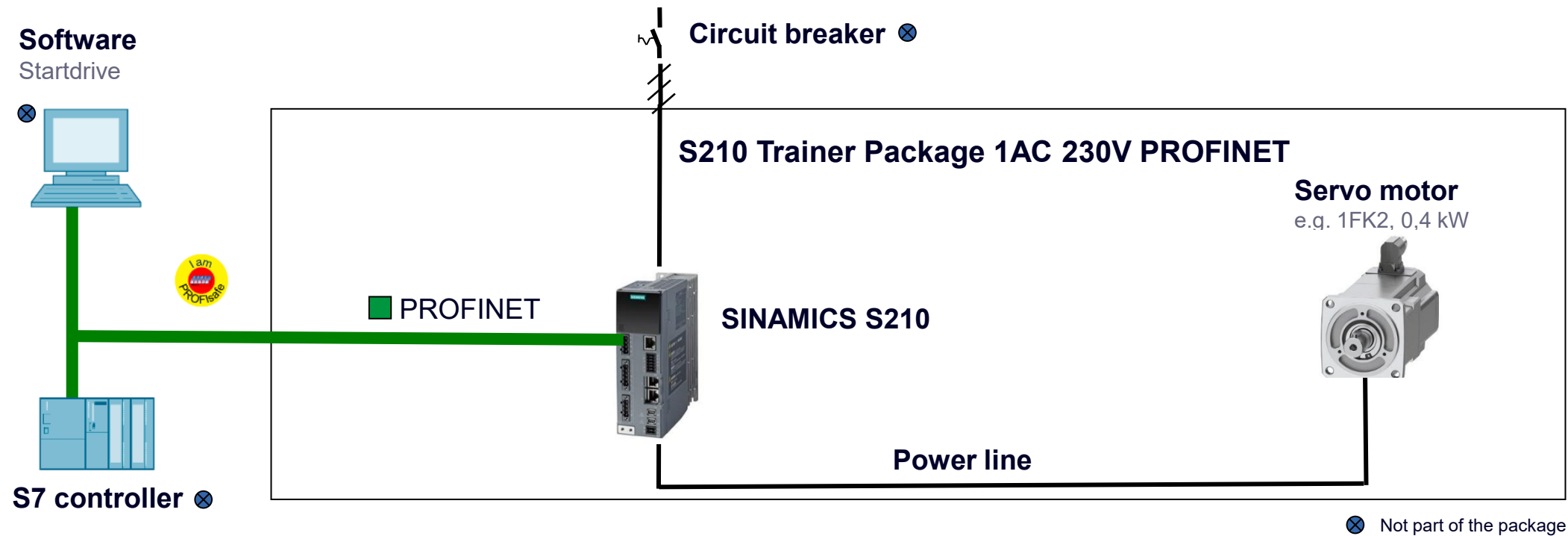
6SL3072-4KA02-0XG0

Note: This product is downloadable only.

SIZER for Siemens Drives → Download

Note: STARTDRIVE is contained in the Trainer Package SIMATIC STEP 7 Professional Software for Training, see →

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

SIEMENS

SINAMICS S210 servo drive 1 AC 230 V Mains

Software
Startdrive

Circuit breaker ⊗

S210 Trainer Package 1AC 230V PROFINET

Servo motor
e.g. 1FK2, 0,4 kW

■ PROFINET

SINAMICS S210

I am PROFIsafe

S7 controller ⊗

Power line

⊗ Not part of the package

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

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	See slides below
Order number:	6SL5990-0AT30-0AB0

Core product for vocational World Cup Industrial Control ↗

world**skills**

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

Overview I Graphic

SIEMENS

SINAMICS S210 servo drive 1 AC 230 V

1 x   SINAMICS S210 input voltage: 200-240 V 1AC; -10%/+10%; 5.0 A; 45-66 Hz; output voltage: 0-input   6SL5310-1BB10-4CF0
       V 2.4 A; 0-550 Hz; motor: 0.4 kW; degree of protection: IP20; frame size B; 55 x 170 x 170 (WxHxD)

1 x   SIMOTICS S-1FK2 HD servo motor M0=1.27 Nm; PN = 0.4 kW at nN=3000 rpm (380-480 V); PN = 0.2 kW   1FK2104-4AF10-1MA0
       at nN=1500 rpm (200-240 V); with holding brake; degree of protection IP64; shaft D19x40 mm with feather key;
       absolute encoder 22-bit + 12-bit multiturn (encoder AM22DQC); with OCC interface; plug size M17, rotatable;

1 x   Single cable connection prefabricated 4G0.75+2x0.5+4x0.2 C SPEED-CONNECT connector M17 Cores with end   6FX5002-8QN08-1AC0
       sleeve Data cable with IX connector UL/CSA DESINA MOTION-CONNECT 500 Dmax=10.5 mm,
       length(m)= 0 + 0 + 2 + 0

1 x   SINAMICS S210 SD card 8 GB including licensing (Certificate of License, stored on the card),   6SL3210-0AE61-0AX0
       V6.x F01: 1x SINAMICS Safety Integrated extended

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

Overview I Graphic   ↗ Download STARTER   ↗ Download Startdrive   ↗ TIA Portal

SIEMENS

SINAMICS G120 servo drive 1 AC 230 V
Optional software

STARTDRIVE   6SL3072-4KA02-0XG0
Engineering and commissioning tool for SINAMICS drives V20
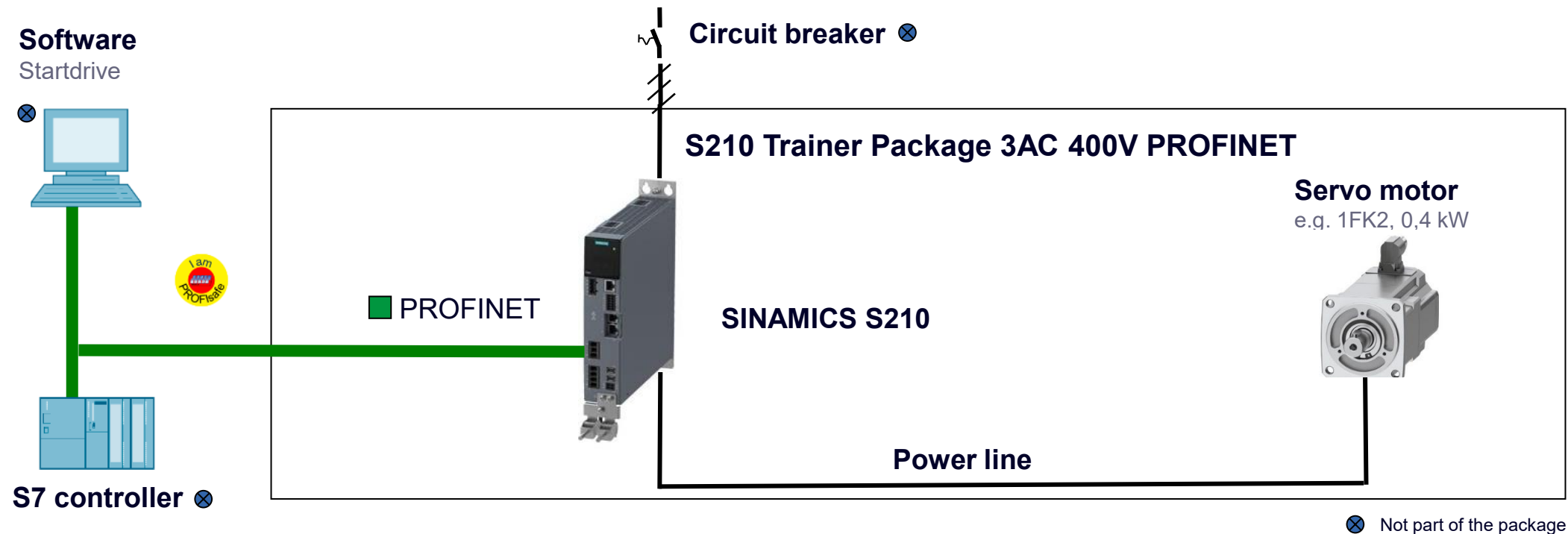
SIZER for Siemens Drives → Download

Note: STARTDRIVE is contained in the Trainer Package SIMATIC STEP 7 Professional Software for Training, see →

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

SIEMENS

SINAMICS S210 servo drive 3 AC 400 V

Software
Startdrive

Circuit breaker ⊗

S210 Trainer Package 3AC 400V PROFINET

Servo motor
e.g. 1FK2, 0,4 kW

PROFINET

SINAMICS S210

S7 controller ⊗

Power line

⊗ Not part of the package

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

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	See slides below
Order number:	6SL5990-0AT30-0AE0

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

Overview I Graphic

SIEMENS

SINAMICS S210 servo drive 3 AC 400 V

1 x   SINAMICS S210 input voltage: 200-480 V 3AC; -10%/+10%; 1.6 A; 45-66 Hz; output voltage: 0-input
      V 1.2 A; 0-550 Hz; motor: 0.4 kW; degree of protection: IP20; frame size A; 50 x 270 x 220 (WxHxD)   6SL5310-1BE10-4DF0

1 x   SIMOTICS S-1FK2 HD servo motor M0=1.27 Nm; PN = 0.4 kW at nN=3000 rpm (380-480 V); PN = 0.2 kW
      at nN=1500 rpm (200-240 V); with holding brake; degree of protection IP64; shaft D19x40 mm with feather key;   1FK2104-4AF10-1MA0
      absolute encoder 22-bit + 12-bit multiturn (encoder AM22DQC); with OCC interface; plug size M17, rotatable;

1 x   Single cable connection prefabricated 4G0.75+2x0.5+4x0.2 C SPEED-CONNECT connector M17 Cores with end
      sleeve Data cable with IX connector UL/CSA DESINA MOTION-CONNECT 500 Dmax=10.5 mm,   6FX5002-8QN08-1AC0
      length(m)= 0 + 0 + 2 + 0

1 x   SINAMICS S210 SD card 8 GB including licensing (Certificate of License, stored on the card),
      V6.x F01: 1x SINAMICS Safety Integrated extended   6SL3210-0AE61-0AX0

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

Overview I Graphic   ↗ Download STARTER   ↗ Download Startdrive   ↗ TIA Portal

SIEMENS

SINAMICS G120 servo drive 3 AC 400 V
Optional software

STARTDRIVE   6SL3072-4KA02-0XG0
Engineering and commissioning tool for SINAMICS drives V20
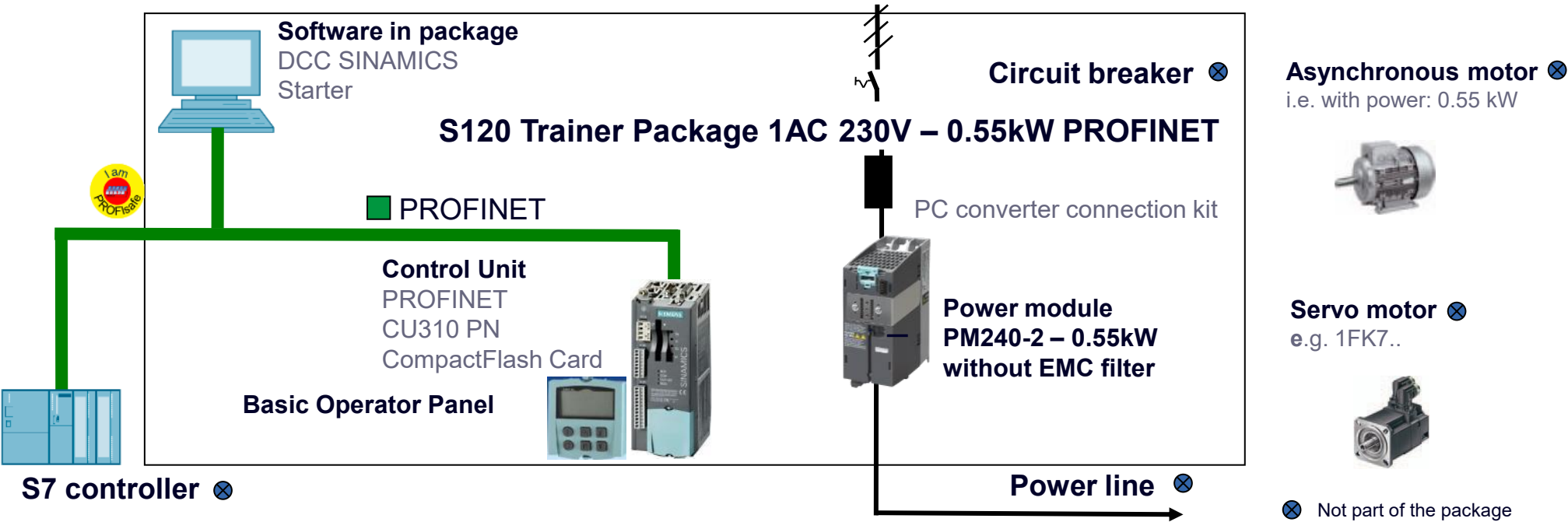
SIZER for Siemens Drives → Download

Note: STARTDRIVE is contained in the Trainer Package SIMATIC STEP 7 Professional Software for Training, see →

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

Overview I Graphic   ↗ Download STARTER   ↗ Download Startdrive   ↗ TIA Portal

SIEMENS

SINAMICS S120 servo drive 1 AC 230 V

Software in package
DCC SINAMICS Starter

S120 Trainer Package 1AC 230V – 0.55kW PROFINET

Circuit breaker ⊗

Asynchronous motor ⊗
i.e. with power: 0.55 kW

◼ PROFINET

PC converter connection kit

Control Unit
PROFINET
CU310 PN
CompactFlash Card

Basic Operator Panel

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

Servo motor ⊗
e.g. 1FK7..

S7 controller ⊗

Power line ⊗

⊗ Not part of the package

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	None available
Order number:	6SL3080-8AB01-0AA0

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

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

Overview I Graphic   ↗ Download STARTER   ↗ Download Startdrive   ↗ TIA Portal

SIEMENS

SINAMICS S120 servo drive 1 AC 230 V

1 x SINAMICS power module PM240-2 unfiltered with integrated braking chopper 200-240 V 1/3AC+10/-10% 47-63Hz power high overload: 0.55kW at 200% 3 s, 150% 57 s, 100% 240 s; Ambient temperature -10 to +50 °C; power low overload: 0.75kW at 150% 3 s, 110% 57 s, 100% 240 s; Ambient temperature -10 to +40 °C 196x 73x 165 (HxWxD), FSA degree of protection IP20 without control unit and operating unit, released as of CU firmware V4.6   6SL3210-1PB13-8UL0

1 x SINAMICS S120 Control Unit CU310-2 PN with PN interface without CompactFlash card   6SL3040-1LA01-0AA0

1 x SINAMICS S120 CompactFlash card without performance extension including Certificate of License V5.1 F01: 1 x License Safety Integrated extended functions   6SL3054-0FB00-1BA0-Z:F01

1 x SINAMICS S120 Basic Operator Panel BOP20 for electronic controls, 6 keys for parameter setting and diagnostic information, suitable for control units CU305, CU310, CU320   6SL3055-0AA00-4BA0

1 x Software on DL-DVD: STARTER commissioning tool for SINAMICS and MICROMASTER V5.6 HF1 DL-DVD   6SL3072-0AA00-0AG0

1 x SINAMICS Engineering System SINAMICS DCC V3.1 SP1 HF2 full license DCC for SINAMICS option for STARTER V5.1 SP1, delivery on DVD, incl. floating license   6AU1810-1HA31-1XA0

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

Overview I Graphic

↗ TIA Portal

SIEMENS

SINAMICS S120 servo drive 1 AC 230 V
Optional hardware and software

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

6EP3336-7SB00-3AX0

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

6XV1870-3RH60

Terminal module TM31 IO expansion
For the SINAMICS S120; 12 DI, 2 DQ, 2 AI, 2 AQ

6SL3055-0AA00-3AA1

Terminal module TM54F Safety IO
For devices S120; fail-safe digital inputs and outputs

6SL3055-0AA00-3BA0

Signal line
DRIVE-CLiQ cable IP20/IP20 length: 0.95 meters

6SL3060-4AA10-0AA0

SIZER for Siemens Drives → Download

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

Overview I Graphic

SIEMENS

SINAMICS S120 servo drive 3 AC 400 V

Software in package
DCC SINAMICS
Starter

S120 Trainer Package 1AC 400V – 0.55kW PROFINET

■ PROFINET

Circuit breaker ⊗

PC converter connection kit

Asynchronous motor ⊗
i.e. with power: 0.55 kW

Control Unit
PROFINET
CU310 PN
CompactFlash Card

Basic Operator Panel

Power module
PM240-2 – 0.55kW
without EMC filter

Servo motor ⊗
e.g. 1FK7..

S7 controller ⊗

Power line ⊗

⊗ Not part of the package

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

System requirements:	WIN 10/11 (64 Bit) Prof. and Enterprise 22H2 & 23H2; Enterprise LTSC 2019, 2021, WIN Server 2019, 2022 Standard (Full installation)
Sales note:	Schools, colleges and universities, for internal vocational company training centers
Technical note:	None available
Order number:	6SL3080-8AE01-0AA0

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

SIEMENS

SINAMICS S120 servo drive 3 AC 400 V

1 x SINAMICS power module PM240-2 unfiltered with integrated braking chopper 380-480 V 3 AC +10/-10%   6SL3210-1PE12-3UL1
     47-63 Hz power high overload: 0.55kW at 200% 3 s, 150% 57 s, 100% 240 s; Ambient temperature -10 to +50 °C;
     power low overload: 0.75kW at 150% 3 s, 110% 57 s, 100% 240 s; Ambient temperature -10 to +40 °C
     196x 73x 165 (HxWxD), FSA degree of protection IP20, without control unit and operating unit, released as
     of CU firmware V4.6

1 x SINAMICS S120 Control Unit CU310-2 PN with PN interface without CompactFlash card   6SL3040-1LA01-0AA0

1 x SINAMICS S120 CompactFlash card without performance extension including Certificate of License V5.1   6SL3054-0FB00-1BA0-
     F01: 1 x License Safety Integrated extended functions   Z:F01

1 x SINAMICS S120 Basic Operator Panel BOP20 for electronic controls, two-line display,   6SL3055-0AA00-4BA0
     6 keys for parameter setting and diagnostic information, suitable for control units CU305, CU310, CU320

1 x Software on DL-DVD: STARTER commissioning tool for SINAMICS and MICROMASTER V5.6 HF1   6SL3072-0AA00-0AG0
     DL-DVD

1 x SINAMICS Engineering System SINAMICS DCC V3.1 SP1 HF2 full license DCC for SINAMICS option for   6AU1810-1HA31-1XA0
     STARTER V5.1 SP1, delivery on DVD, incl. floating license

► IOT2000
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► SIMIT Simulation
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► Distributed IOs
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► Industrial Communication
► Industrial Identification
► Drive Technology
► SinuTrain SW
► PLM Software
► WorldSkills
► Ordering Inform.

Overview I Graphic

↗ TIA Portal

SIEMENS

SINAMICS S120 servo drive 3 AC 400 V
Optional hardware and software

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

6EP3336-7SB00-3AX0

▶ IOT2000

▶ Industrial Controls

▶ Engineering SW

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

6XV1870-3RH60

▶ Process Automation

▶ SIMIT Simulation

Terminal module TM31 IO expansion
For the SINAMICS S120; 12 DI, 2 DQ, 2 AI, 2 AQ

6SL3055-0AA00-3AA1

▶ Basic Automation

▶ Advanced Automation

Terminal module TM54F Safety IO
For devices S120; fail-safe digital inputs and outputs

6SL3055-0AA00-3BA0

▶ Distributed IOs

Signal line
DRIVE-CLiQ cable IP20/IP20 length: 0.95 meters

6SL3060-4AA10-0AA0

▶ Operator control & monitoring

▶ Industrial Communication

▶ Industrial Identification

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▶ Drive Technology

▶ SinuTrain SW

▶ PLM Software

▶ WorldSkills

▶ Ordering Inform.

Overview I Graphic

SIEMENS

SinuTrain software
Overview

Product	Hardware	Licenses	Delivery form	Version	Order number (MLFB)	Note
SinuTrain SINUMERIK Operate V4.5/V4.7/V4.8/V4.9 siemens.com/sinutrain-downloads		Basic version			No time limit	NEW
SinuTrain Trainer Package for SINUMERIK Operate		6+40		V4.9	MCS5370 / 6FC5870-1TC46-0YA0	★
SinuTrain student licenses for SINUMERIK Operate – 300 hours		20		V4.9	MCS5360 / 6FC5870-1SC46-0YA0	★
SinuTrain Trainer Package for SINUMERIK Operate		6+40		V4.8	MCS40552 / 6FC5870-1TC45-0YA0	★
SinuTrain student licenses for SINUMERIK Operate – 300 hours		20		V4.8	MCS40573 / 6FC5870-1SC45-0YA0	★
SinuTrain Trainer Package for SINUMERIK Operate		6+40		V4.7	MCS4055 / 6FC5870-1TC43-0YA0	★
SinuTrain student licenses for SINUMERIK Operate – 300 hours		20		V4.7	MCS4057 / 6FC5870-1SC43-3YA0	★
SinuTrain Trainer Package for SINUMERIK Operate		6+40		V4.5	MCS40551 / 6FC5870-1TC41-0YA0	★
SinuTrain student licenses for SINUMERIK Operate – 300 hours		20		V4.5	MCS40571 / 6FC5870-1SC41-0YA0	★
Run MyVirtual Machine		1			6FC6470-1MP00-0YA_	★

SinuTrain software
- In countries with sales via Siemens, DI software only with Maintenance.
  Order no. MCS**** → Requests for offers should be sent to: mcmts.software.plm@siemens.com
- In countries with sales via Siemens, without Maintenance.
  Article number 6FC5870-1 → Requests for offers should be sent to Standard Siemens Sales

★ Only for schools, colleges and universities

SIEMENS

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

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

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

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

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

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

Overview I Graphic

SIEMENS

Academic Bundle –
SinuTrain for SINUMERIK Operate V4.9

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

1 Package
Full Licenses

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

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

The packages contain only the licenses. The software itself must be downloaded as demo version –
see siemens.com/sinutrain-downloads – and the licenses must then be installed

---

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

System requirements:	Windows 10 (64-bit; Mobile and Mobile Enterprise are not supported)
Sales note:	Schools, colleges and universities, not for internal vocational company training centers
	Depending on the country, the package is sold only with Maintenance (currently in DE, AT, CH, US, IT, TW)
	or only without Maintenance
	For quotation requests in general, send email to: mcmts.software.plm@siemens.com
Technical note:	Suitable for use with SINUMERIK 840D SL, SINUMERIK 828D/828D BASIC with CNC software V4.9
Order number:	MCS5370 (incl. Maintenance) 6FC5870-1TC46-0YA0 (without Maintenance)

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

Overview I Graphic

SIEMENS

Academic Bundle –
SinuTrain SINUMERIK Operate V4.9 **for students**

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

1 Package
Student Licenses

The packages contain only the licenses. The software itself must be downloaded as demo version –
see siemens.com/sinutrain-downloads – and the licenses must then be installed

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

System requirements:	Windows 10 (64-bit; Mobile and Mobile Enterprise are not supported)
Sales note:	Schools, colleges and universities, not for internal vocational company training centers Depending on the country, the package is sold only with Maintenance (currently in DE, AT, CH, US, IT, TW) or only without Maintenance For quotation requests in general, send email to: mcmts.software.plm@siemens.com
Technical note:	Suitable for use with SINUMERIK 840D SL, SINUMERIK 828D/828D BASIC with CNC software V4.9
Order number:	MCS5360 (incl. Maintenance) 6FC5870-1SC46-0YA0 (without Maintenance)

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

Overview I Graphic

SIEMENS

Academic Bundle –
SinuTrain for SINUMERIK Operate V4.8

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

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

1 Package
Full Licenses

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

The packages contain only the licenses. The software itself must be downloaded as demo version –
see siemens.com/sinutrain-downloads – and the licenses must then be installed

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

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

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

Overview I Graphic

SIEMENS

Academic Bundle –
SinuTrain SINUMERIK Operate V4.8 **for students**

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

6FC5870-1SC45-0YA0

1 Package
Student Licenses

The packages contain only the licenses. The software itself must be downloaded as demo version –
see siemens.com/sinutrain-downloads – and the licenses must then be installed

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

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

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

Overview I Graphic

SIEMENS

Academic Bundle –
SinuTrain for SINUMERIK Operate V4.7

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

1 Package
Full Licenses

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

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

The packages contain only the licenses. The software itself must be downloaded as demo version –
see siemens.com/sinutrain-downloads – and the licenses must then be installed

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

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

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

Overview I Graphic

SIEMENS

Academic Bundle –
SinuTrain SINUMERIK Operate V4.7 **for students**

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

6FC5870-1SC43-3YA0

1 Package
Student Licenses

The packages contain only the licenses. The software itself must be downloaded as demo version –
see siemens.com/sinutrain-downloads – and the licenses must then be installed

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

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

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

Overview I Graphic

SIEMENS

Academic Bundle –
SinuTrain for SINUMERIK Operate V4.5

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

1 Package
Full Licenses

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

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

The packages contain only the licenses. The software itself must be downloaded as demo version –
see siemens.com/sinutrain-downloads – and the licenses must then be installed

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

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

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

Overview I Graphic

SIEMENS

Academic Bundle –
SinuTrain SINUMERIK Operate V4.5 **for students**

1 x 20 license for **SinuTrain Operate V4.5** – **for students**   6FC5870-1SC41-0YA0
Software subject to time limit of 300 hours with authorization

1 Package
Student Licenses

The packages contain only the licenses. The software itself must be downloaded as demo version –
see siemens.com/sinutrain-downloads – and the licenses must then be installed

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

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

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

Overview I Graphic

SIEMENS

Siemens Product Lifecycle Management (PLM) Software
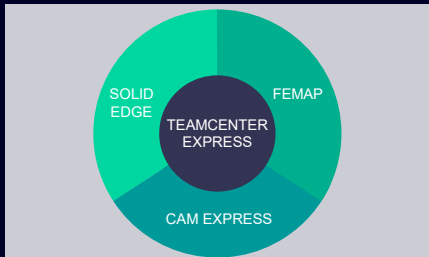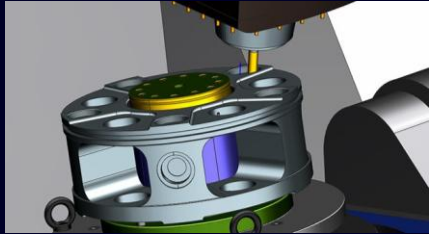
PLM software

↗ NX, offers modern tools and technologies for product development. The latest version contains functions for increasing productivity in design, simulation and manufacturing.
↗ PLM Software Academic Partner Program   ↗ PLM Software for Students

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

↗ Teamcenter, supports bringing increasingly complex products to the market throughout the entire product life cycle, with simultaneous increases in productivity and optimized worldwide cooperation.

Velocity Series, a family of modular, pre-integrated software solutions for product life cycle management in small and medium-sized manufacturing companies.
The 2D/3D CAD software Solid Edge is a component of this software.
↗ Solid Edge Educators   ↗ Solid Edge Academic

The ↗ Mendix all-in-one, low-code application development Platform accelerates every step of the enterprise application development lifecycle.

Contact Partners: In DE/AT/CH contact mediation via SCE promoters. & In all other countries via siemens.com/plm/gaf

Overview I Graphic

SIEMENS

Partnership with WorldSkills

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

More about WorldSkills:

↗ Cooperation

↗ Competitions

Since 2010, Siemens has been a global industry partner and product sponsor and provides automation products including SIMATIC S7-1500 and LOGO! for disciplines such as Industry 4.0, Industrial Control, Electrical Installations, Industrial Mechanics and Renewable Energy for the WorldSkills competitions. The machines for the CNC Turning and CNC Milling disciplines are equipped with SINUMERIK controllers.

Every two years, a world championship with > 1,000 competitors and > 200,000 visitors takes place.
London 2011, Leipzig 2013, São Paulo 2015, Abu Dhabi 2017, Kazan 2019, Lyon 2024, Shanghai 2026

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

Global Industry Partner | worldskills

SIEMENS

Important ordering information

A specific end use agreement is required to purchase Trainer Packages

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

Trainer Packages are released for delivery by SIEMENS AG, SCE Team global: fax: 49 (0)911-958-29105, email

Siemens contact partners can find this declaration on the SCE Intranet ↗ Additional agreement.

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

SinuTrain: In DE/AT/CN/US/IT/TW sale only with Maintenance → Article number MCS405... Request a quote to: mcmts.software.plm@siemens.com;

In all other countries sale without Maintenance → Article number 6FC5870-1... Request for quotation to Siemens standard sales

NX MCD Software: Requests to DE/AT/CH Contact mediation via SCE promoters and siemens.com/plm/gaf

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

• SIMATIC CFC Software – **for students**	6ES7658-1EX58-0YS6
• SIMOTION SCOUT SW – **for students**	6AU1810-1BE57-1YA5
• SinuTrain Operate	6FC5870-1T… /MCS405… Requests to mcmts.software.plm@siemens.com
• SinuTrain Operate – **for students**	6FC5870-1S… /MCS405… Requests to mcmts.software.plm@siemens.com
• NX MCD Software	Requests to DE/AT/CH contact referral via SCE promoters In all other countries via siemens.com/plm/gaf

SIEMENS

You can find additional information at SCE on the Internet

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

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

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