

Overview

Embedded PC platform with extremely high industrial compatibility for demanding tasks in the field of PC-based automation

- Rugged operation
 - Operation without a hard disk, based on CompactFlash card (CF Card) or solid-state drive and Windows Embedded Standard
 - Fan-free operation
 - 128 KB of retentive data for WinAC RTX, also without uninterruptible power supply (UPS)
- Flexibility of a PC-based automation environment
 - Free memory space on CF Card can be used for other PC applications
 - Use of WinAC ODK with SIMATIC WinAC RTX or SIMATIC WinAC RTX F (read-only for fail-safe program section)
 - Connection option for USB devices, flat panel monitor or screen
 - PCI 104 cards can be plugged in
- High-performance service concept
 - Replacement parts for preferred types available ex stock
- Safety requirements up to SIL 3 in accordance with IEC 61508/62061 or EN ISO 13849-1 up to PL e can be implemented with WinAC RTX F.
- Cost-effective versions with PROFINET, based on the standard Ethernet interface
- Current product versions of the pre-installed software:
 - SIMATIC WinAC RTX 2010 or SIMATIC WinAC RTX F 2010
 - SIMATIC WinCC flexible 2008 or WinCC RT Advanced
 - and the combinations of the software packages above
 - SIMATIC NET Edition 2008 or V8.1 (depending on operating system), as well as
 - SIMATIC WinCC V7.0 SP2 or WinCC RT Professional as a client / single station

PC-based Automation

Embedded bundles/Software packages

SIMATIC IPC427C bundles

Ordering data

Article No.

SIMATIC IPC427C with pre-installed software

6ES7675 - 1D

*RTX bundles with
SIMATIC WinAC RTX (F) 2010*
*HMI bundles with WinCC flexible
2008 or WinCC RT Advanced V11
bundles*
*HMI/RTX bundles combining
HMI and RTX*

Processor

- Celeron M, 1.2 GHz,
2x PROFINET (IE) ¹⁾
- Celeron M, 1.2 GHz,
2x PROFINET (IE),
1x PROFIBUS ¹⁾
- Core2 Solo, 1.2 GHz,
2x PROFINET (IE) ¹⁾
- Core2 Solo, 1.2 GHz,
2x PROFINET (IE),
1x PROFIBUS ¹⁾
- Core2 Solo, 1.2 GHz,
1x PROFINET (IE),
PROFINET (RT/IRT) 3 ports
- Core2 Duo, 1.2 GHz,
2x PROFINET (IE) ¹⁾
- Core2 Duo, 1.2 GHz,
2x PROFINET (IE),
1x PROFIBUS ¹⁾
- Core2 Duo, 1.2 GHz,
1x PROFINET (IE),
PROFINET (RT/IRT) 3 ports

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Main memory

- 1 GB RAM
- 2 GB RAM ¹⁾
- 4 GB RAM

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Operating system

- Windows Embedded Standard
2009 (WES2009) ¹⁾
- Windows Embedded Standard 7
(WES7) ²⁾

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Mass storage, internal

- None (can only be ordered with
externally accessible mass stor-
age) ¹⁾
- 250 GB HDD SATA, only addition-
ally with externally accessible CF
- 50 GB solid-state drive (high-en-
durance), operating system and
software pre-installed
- 80 GB solid-state drive (standard
SATA), operating system and soft-
ware pre-installed
- 4 GB internal CompactFlash,
operating system and software
pre-installed ¹⁾
- 8 GB internal CompactFlash,
operating system and software
pre-installed ¹⁾
- 16 GB internal CompactFlash,
operating system and software
pre-installed ¹⁾

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Externally accessible mass storage

- None (can only be ordered with
internal mass storage) ¹⁾
- 4 GB CompactFlash,
operating system and software
pre-installed ¹⁾
- 8 GB CompactFlash,
operating system and software
pre-installed ¹⁾
- 16 GB internal CompactFlash,
operating system and software
pre-installed ¹⁾

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Article No.

SIMATIC IPC427C with pre-installed software

6ES7675 - 1D

Software configurations ¹⁾

- WinAC RTX
- HMI RT 128 PT
- HMI RT 512 PT
- HMI RT 2048 PT
- HMI RT 4096 PT
- WinAC RTX, HMI RT 128 PT
- WinAC RTX, HMI RT 512 PT
- WinAC RTX, HMI RT 2048 PT
- WinAC RTX, HMI RT 4096 PT
- WinAC RTX F
- WinAC RTX F, HMI RT 128 PT
- WinAC RTX F, HMI RT 512 PT
- WinAC RTX F, HMI RT 2048 PT
- WinAC RTX F, HMI RT 4096 PT

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- HMI RT: WinCC flexible 2008 or
w/o HMI software ³⁾

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- HMI RT: WinCC Advanced V11
SP2 (TIA Portal), only with WES7
and 2 GB RAM

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¹⁾ Replacement hardware units available in exchange

²⁾ Only together from 2 GB main memory

³⁾ WinCC flexible 2008 SP2 with WES2009
WinCC flexible 2008 SP3 with WES7

In-stock models

Replacement hardware units
available in exchange

SIMATIC IPC427C bundle with WinAC RTX 2010

- Core2 Solo processor, 1.2 GHz,
2x PROFINET (IE), 1x PROFIBUS,
2 GB RAM, 4 GB CompactFlash
- Core2 Duo processor, 1.2 GHz,
2x PROFINET (IE), 1x PROFIBUS,
2 GB RAM, 4 GB CompactFlash
- Core2 Duo processor, 1.2 GHz,
2x PROFINET (IE), 1x PROFIBUS,
2 GB RAM, 8 GB CompactFlash

6ES7675-1DF30-0DB0

6ES7675-1DK30-0DB0

6ES7675-1DK30-0EP0

SIMATIC IPC427C bundle with WinAC RTX 2010 and WinCC flexible 2008 512 PT

- Core2 Duo processor, 1.2 GHz,
2x PROFINET (IE), 1x PROFIBUS,
2 GB RAM, 4 GB CompactFlash

6ES7675-1DK30-0DL0

Ordering data	Article No.		Article No.	
Bundles with WinCC ²⁾ IPC427C with WinCC RT, V7.0 SP2, incl. Update 1 Fan-free, 4 x USB 2.0 (500 mA), 1 x COM (RS 232), 24 V DC power supply with On/Off switch, 2 x PROFINET (IE), Windows Embedded Standard 2009 pre-installed, SIMATIC WinCC V7.0 SP2 incl. Update1 Runtime pre-installed			Bundles with WinCC RT Professional (TIA Portal) ²⁾ IPC427C with WinCC RT Professional, V11 SP2 Fan-free, 4 x USB 2.0 (500 mA), 1 x COM (RS 232), 24 V DC power supply with On/Off switch, 2 x PROFINET (IE), Windows Embedded Standard 7 SP1 pre-installed, SIMATIC WinCC Runtime Professional V11 SP2 pre-installed	
Client configurations Processor Celeron M 1.2 GHz, 1 GB SDRAM-DDR3, 4 GB CF Card, runtime license 128 PT	6ES7675-1DA20-6AX0		Client configurations • Celeron M processor 1.2 GHz, 2 GB SDRAM DDR3, 8 GB CF card, runtime license 128 PT ¹⁾	6ES7675-1DA31-7AY0
Client and stand-alone station configurations • Core2 Solo processor 1.2 GHz, 2 GB SDRAM-DDR3, 8 GB CF card, runtime license 128 PT ¹⁾ • Core2 Solo processor 1.2 GHz, PROFIBUS DP, 2 GB SDRAM-DDR3, 8 GB CF card, runtime license 128 PT ¹⁾	6ES7675-1DE30-7AX0 6ES7675-1DF30-7AX0		Client and stand-alone station configurations • Core2 Solo processor 1.2 GHz, 2 GB SDRAM DDR3, 8 GB CF card, runtime license 128 PT ¹⁾ • Core2 Solo processor 1.2 GHz, PROFIBUS DP, 2 GB SDRAM DDR3, 8 GB CF card, runtime license 128 PT ¹⁾	6ES7675-1DE31-7AY0 6ES7675-1DF31-7AY0
Stand-alone station configurations Core2 Duo processor 1.2 GHz, PROFIBUS DP, 4 GB SDRAM-DDR3 • 8 GB CF card, runtime license 128 PT ¹⁾ • 50 GB SSD (High Endurance), runtime license 128 PT ¹⁾ • 8 GB CF card, runtime license 2048 PT ¹⁾ • 50 GB SSD (High Endurance), runtime license 2048 PT ¹⁾	6ES7675-1DK40-A.0 6ES7675-1DK40-7AX0 6ES7675-1DK40-2AX0 6ES7675-1DK40-7AW0 6ES7675-1DK40-2AW0		Stand-alone station configurations Core2 Duo processor 1.2 GHz, PROFIBUS DP, 4 GB SDRAM-DDR3 • 8 GB CF card, runtime license 128 PT ¹⁾ • 50 GB SSD (High Endurance), runtime license 128 PT ¹⁾ • 8 GB CF card, runtime license 2048 PT ¹⁾ • 50 GB SSD (High Endurance), runtime license 2048 PT ¹⁾	6ES7675-1DK41-7AY0 6ES7675-1DK41-2AY0 6ES7675-1DK41-7AV0 6ES7675-1DK41-2AV0
			Accessories CP 5603 Microbox Package Package for using the PROFIBUS CP 5603 in Microbox PCs; comprising a CP 5603 module and a Microbox expansion rack	6GK1560-3AU00
			CP 1604 Microbox Package Package for the use of the PROFINET CP 1604 in Microbox PCs; consisting of CP 1604 card, connection board, power supply and Microbox PC expansion frame; used via development kit DK-16xx PN IO; NCM P	6GK1160-4AU00
			Portrait assembly kit Interfaces to the front	6ES7648-1AA20-0YB0
			Expansion components	See Expansion components

¹⁾ Number of process tags (PT) can be increased by means of PowerPacks.

²⁾ ("Built to order" with max. delivery time of 14 working days; only repairs are possible for hardware)

PC-based Automation

Embedded bundles/Software packages

SIMATIC IPC427C bundles

More information

Delivery

Production and delivery of the devices will typically be completed within 15 working days after receipt of order. The hardware and mass memory with the complete, pre-installed, ready-to-use software are supplied fully assembled.

Commissioning

Before the control or visualization application is complete, simply perform the following steps:

- Optional: Install and setup additional hardware on the device (e.g. an additional SIMATIC CP 5603 PROFIBUS interface)
- Optional: Installation and setup of other software on the device
- Transfer of the engineering projects from STEP 7 and/or WinCC flexible
- Transfer of the supplied license keys for SIMATIC software
- Backup of the installed software and protection of the flash-based mass memory by switching on the Enhance Write filter

Replacement units

For the preferred versions, repaired replacement devices are available extremely quickly ex stock. Preferred versions offer the following options:

- All processor versions with PROFINET(IE) or PROFIBUS option
- 2 GB RAM
- Exclusively for replaceable CompactFlash memory (supplied without mass memory)
- All software configurations