

**Overview****SIMATIC IPC647D**

The SIMATIC IPC647D is a very rugged, high-performance industrial PC in 19" rack design (2 U) with excellent industrial functionality.

It offers:

- Extreme compactness
- Extreme ruggedness
- Intel® Core® i/Xeon technology 4th generation

**Technical specifications**

|  |  |
|--|--|
| Article number                             | <b>6AG4112-2....-....</b><br>SIMATIC IPC647D (Rack PC)   |
| <b>Installation type/mounting</b>          |  |
| Mounting                                   | For horizontal installation; prepared for telescopic rails; 19" mounting bracket can be removed externally   |
| Design                                     | Rack PC, 19", 2U   |
| <b>Supply voltage</b>                      |  |
| Type of supply voltage                     | 100/240 V AC (autorange)<br>50 / 60 Hz; optional redundant<br>100 - 240 V AC   |
| <b>Line frequency</b>                      |  |
| • Rated value 50 Hz                        | Yes  |
| • Rated value 60 Hz                        | Yes  |
| <b>Mains buffering</b>                     |  |
| • Mains/voltage failure stored energy time | 20 ms  |
| <b>Processor</b>                           |  |
| Processor type                             | Xeon E3-1268L v3<br>(4C/8T, 2.3 (3.3) GHz, 8 MB cache);<br>Core i5-4570TE<br>(2C/4T, 2.7 (3.3) GHz, 4 MB cache);<br>Core i3-4330TE<br>(2C/4T, 2.4 GHz, 4 MB cache)   |
| Chipset                                    | Intel DH82C226 PCH   |
| <b>Graphic</b>                             |  |
| Graphics controller                        | Onboard graphics controller<br>Intel HD 4600 Graphics integrated<br>into the processor / PCI-Express<br>graphics card (Dual Head:<br>2x VGA or 2x DVI-D) in the<br>PCIe (x16) slot (optional)  |
| <b>Drives</b>                              |  |
| Optical drives                             | DVD±R/RW (SlimLine)  |
| Hard disk                                  | 500 GB HDD, 1 TB HDD,<br>2x 1 TB HDD,<br>RAID1 (2x 1 TB HDD, mirror disks);<br>RAID1 (2x 1 TB HDD SAS,<br>mirror disks) with PCIe (x8) RAID<br>controller incl. ZMCP module  |
| SSD  | Yes; 240 GB SSD;<br>RAID1 (2x 240 GB SSD, mirror disks)  |
| Slot for drives                            | Mounted internally on the fixed hard<br>disk support, or mounted internally in<br>vibration/shock-absorbing hard disk<br>support, or mounted at the front in<br>the low-profile removable drive bay<br>(hot-swap in RAID configurations) |
| <b>Memory</b>                              |  |
| Main memory                                | 2 GB to 32 GB DDR3 1600 DIMM,<br>ECC optional  |

# PC-based Automation

Industrial PC

Rack PC

## SIMATIC IPC647D

### Technical specifications (continued)

|   |  |   |  |  |  |  |
|---|--|---|--|--|--|--|
| Article number  | <b>6AG4112-2....-</b><br>SIMATIC IPC647D (Rack PC)   | Article number  | <b>6AG4112-2....-</b><br>SIMATIC IPC647D (Rack PC) |  |  |  |
| <b>Hardware configuration</b>   |  |   |  |  |  |  |
| <b>Slots</b>  | <ul style="list-style-type: none"> <li>free slots</li> </ul> 2x PCIe mech. (x16) (4 lanes) or<br>4x PCIe mech. (x16) (4 lanes /<br>8 lanes depending on slot) or<br>2x PCI, 2x PCIe mech. (x16)<br>(8 lanes); all modules to a length of<br>312 mm can be used |   |  |  |  |  |
| <b>Interfaces</b>   |  |   |  |  |  |  |
| Interfaces/bus type   | 1x COM1, 1x COM2 (optional),<br>1x LPT (optional),<br>2x DisplayPort,<br>1x DVI-I, 2x PS/2,<br>audio (Microphone In, Line Out),<br>7x USB, 2x Gigabit Ethernet,<br>PROFIBUS or PROFINET optional   |   |  |  |  |  |
| PROFIBUS/MPI  | Optionally onboard, isolated,<br>max. 12 Mbit/s, no plug-in card<br>necessary, CP 5622-compatible  |   |  |  |  |  |
| USB port  | 2x USB 3.0, 2x USB 2.0 rear,<br>1x USB 3.0, 1x USB 2.0 front,<br>1x USB 3.0 internal   |   |  |  |  |  |
| Connection for keyboard/mouse<br>serial interface   | 2x PS/2<br>COM1: 1x RS 232, COM2 (optional):<br>1x RS 232  |   |  |  |  |  |
| parallel interface<br>Multimedia  | optional LPT1<br><ul style="list-style-type: none"> <li>Audio In/Out</li> <li>Microphone In</li> </ul> Yes   |   |  |  |  |  |
| <b>Video interfaces</b>   |  |   |  |  |  |  |
| • Graphics interface  | 2x DisplayPort and 1x DVI-I onboard;<br>1x VGA via DVI-VGA adapter cable<br>(optional); graphics card PCIe (x16),<br>Dual Head (2x VGA or 2x DVI-D),<br>1 GB graphics memory (optional)  |   |  |  |  |  |
| <b>Industrial Ethernet</b>  |  |   |  |  |  |  |
| • Industrial Ethernet interface   | 2x Ethernet (RJ45)   |   |  |  |  |  |
| - 100 Mbps  | Yes  |   |  |  |  |  |
| - 1000 Mbps   | Yes  |   |  |  |  |  |
| <b>Integrated Functions</b>   |  |   |  |  |  |  |
| <b>Monitoring functions</b>   |  |   |  |  |  |  |
| • Temperature monitoring  | Yes  |   |  |  |  |  |
| • Watchdog  | Yes  |   |  |  |  |  |
| • Status LEDs   | POWER, HDD, ETHERNET 1,<br>ETHERNET 2, PROFIBUS / MPI,<br>SF PROFINET, WATCHDOG, TEMP,<br>FAN, HDD0 ALARM, HDD1 ALARM  |   |  |  |  |  |
| • Fan   | Yes  |   |  |  |  |  |
| • Monitoring function via network   | Optional   |   |  |  |  |  |
| <b>EMC</b>  |  |   |  |  |  |  |
| <b>Interference immunity against discharge of static electricity</b>  |  |   |  |  |  |  |
| <ul style="list-style-type: none"> <li>Interference immunity against discharge of static electricity</li> </ul> |  | ±6 kV contact discharge acc. to<br>IEC 61000-4-2;<br>±8 kV air discharge acc. to<br>IEC 61000-4-2   |  |  |  |  |
| <b>Interference immunity against high-frequency electromagnetic fields</b>                                      |  |   |  |  |  |  |
| <ul style="list-style-type: none"> <li>Interference immunity against high frequency radiation</li> </ul>        |  | 10 V/m for 80 - 1000 MHz and<br>1.4 - 2 GHz, 80% AM acc. to<br>IEC 61000-4-3; 3 V/m for<br>2 - 2.7 GHz, 80% AM acc. to<br>IEC 61000-4-3; 10 V for<br>10 kHz - 80 MHz, 80% AM acc. to<br>IEC 61000-4-6 |  |  |  |  |
| <b>Interference immunity to cable-borne interference</b>  |  |   |  |  |  |  |
| <ul style="list-style-type: none"> <li>Interference immunity on supply cables</li> </ul>                        |  | ±2 kV acc. to IEC 61000-4-4, burst;<br>±1 kV acc. to IEC 61000-4-5, surge<br>symmetric;<br>±2 kV acc. to IEC 61000-4-5, surge<br>asymmetric   |  |  |  |  |
| <ul style="list-style-type: none"> <li>Interference immunity on signal cables &gt;30 m</li> </ul>               |  | ±2 kV acc. to IEC 61000-4-4, burst;<br>±2 kV acc. to IEC 61000-4-5, surge<br>symmetric  |  |  |  |  |
| <ul style="list-style-type: none"> <li>Interference immunity on signal cables &lt; 30 m</li> </ul>              |  | ±1 kV acc. to IEC 61000-4-4, Burst  |  |  |  |  |
| <b>Interference immunity against voltage surge</b>  |  |   |  |  |  |  |
| <ul style="list-style-type: none"> <li>asymmetric interference</li> </ul>                                       |  | ±2 kV acc. to IEC 61000-4-5, surge<br>asymmetric  |  |  |  |  |
| <ul style="list-style-type: none"> <li>symmetric interference</li> </ul>  |  | ±1 kV acc. to IEC 61000-4-5, surge<br>symmetric   |  |  |  |  |
| <b>Interference immunity to magnetic fields</b>   |  |   |  |  |  |  |
| <ul style="list-style-type: none"> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul>             |  | 100 A/m; to IEC 61000-4-8   |  |  |  |  |
| <b>Emission of conducted and non-conducted interference</b>   |  |   |  |  |  |  |
| <ul style="list-style-type: none"> <li>Interference emission via line/AC current cables</li> </ul>              |  | EN 61000-6-3, FCC Class A,<br>EN 61000-6-4, CISPR 22,<br>EN 55022 Class B,<br>EN 61000-3-2 Class D,<br>EN 61000-3-3   |  |  |  |  |
| <b>Degree and class of protection</b>   |  |   |  |  |  |  |
| IP (at the front)   |  | IP41  |  |  |  |  |
| IP (rear)   |  | IP20  |  |  |  |  |

**Technical specifications (continued)**

|   |  |
|---|--|
| Article number  | <b>6AG4112-2....-</b><br>SIMATIC IPC647D (Rack PC)   |
| <b>Standards, approvals, certificates</b>                     |  |
| Approval  | CE, cULus 60950, KCC   |
| CE mark   | Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)   |
| CSA approval  | Yes; Included in cULus   |
| UL approval   | Yes  |
| cULus   | Yes; UL 60950-1, file number E115352   |
| RCM (formerly C-TICK)   | Yes  |
| KC approval   | Yes  |
| EAC (formerly Gost-R)   | Yes  |
| EMC   | CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005  |
| Dust protection   | With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered  |
| <b>Marine approval</b>  |  |
| • Germanischer Lloyd (GL)                                     | Yes; Only with SSD   |
| • American Bureau of Shipping (ABS)                           | Yes; Only with SSD   |
| • Bureau Veritas (BV)   | Yes; Only with SSD   |
| • Det Norske Veritas (DNV)                                    | Yes; Only with SSD   |
| • Lloyds Register of Shipping (LRS)                           | Yes; Only with SSD   |
| <b>Ambient conditions</b>                                     |  |
| <b>Ambient temperature during operation</b>                   |  |
| • Ambient temperature during operation                        | 0 ... 50 °C no ODD operation, no HDD operation in swap frame, no hardware RAID controller; 0 ... 45 °C no ODD operation, no hardware RAID controller, power loss of expansion cards in total < 55 W; 0 ... 40 °C no hardware RAID controller, power loss of the expansion cards in total < 55 W; 0 ... 35 °C no restrictions |
| <b>Relative humidity</b>                                      |  |
| • Relative humidity   | Tested to IEC 60068-78, DIN IEC 68-2-30: 5% to 80% at 25 °C (no condensation)  |
| <b>Vibrations</b>   |  |
| • Vibration resistance during operation acc. to IEC 60068-2-6 | Tested according to IEC 60068-2-6: 10 cycles, 10 Hz to 58 Hz; 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s <sup>2</sup> (0.5 g)   |
| <b>Shock testing</b>  |  |
| • Shock load during operation                                 | Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s <sup>2</sup> (5 g), 30 ms, 100 shocks per axis   |

|                                     |   |
|-------------------------------------|---|
| Article number                      | <b>6AG4112-2....-</b><br>SIMATIC IPC647D (Rack PC)  |
| <b>Operating systems</b>            |   |
| Operating system                    | Windows 7 Ultimate, multi-language (32-bit/64-bit), Windows 10 Enterprise 2015 LTSB, multi-language (64-bit), Windows 10 Enterprise 2016 LTSB, multi-language (64-bit), Windows Server 2008 R2 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2012 R2 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit) |
| pre-installed operating system      | Yes   |
| Additional info on operating system | Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)  |
| without operating system            | Yes   |
| <b>Software</b>                     |   |
| SIMATIC Software                    | Optionally in package with SIMATIC WinCC or WinCC flexible  |
| <b>Dimensions</b>                   |   |
| Width                               | 430 mm  |
| Height                              | 88 mm; 2U   |
| Depth                               | 444 mm  |

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| <b>SIMATIC IPC647D</b>  | <b>6AG4112 - 2</b> ■■■■■ - ■■■■■ | <b>SIMATIC IPC647D</b>  |
| Interfaces: RACK PC, 19", 2 U<br>Interfaces: 2 x GBIT LAN (RJ45);<br>1 x DVI-I; 2 x DisplayPort;<br>1 x COM; 2 x PS/2; audio;<br>2 x USB 3.0, 2 x USB 2.0 at rear;<br>1 x USB 3.0, 1 x USB 2.0 at front,<br>1 x USB 3.0 internal; temperature<br>and fan monitoring, watchdog,<br>card retainer | D                                | Hard disks/SSD  |
| Processor/main board  | E                                | • 500 GB HDD SATA, internal<br>(0.5 g vibration, 5 g shock)   |
| • Core i3-4330TE<br>(2C/4T, 2.4 GHz, 4 MB cache);<br>mainboard without fieldbus   | F                                | • 1 TB HDD SATA, internal<br>(0.5 g vibration, 5 g shock)   |
| • Core i3-4330TE<br>(2C/4T, 2.4 GHz, 4 MB, VT-x);<br>mainboard with PROFIBUS/MPI<br>(CP 5622-compatible)  | G                                | • 2 x 1 TB HDD SATA, internal<br>(0.5 g vibration, 5 g shock)   |
| • Core i3-4330TE<br>(2C/4T, 2.4 GHz, 4 MB cache);<br>mainboard with PROFINET<br>(3 x RJ45, CP 1616-compatible)  | H                                | • RAID1, 1 TB (2 x 1 TB HDD SATA,<br>mirror disks), internal (0.5 g<br>vibration, 5 g shock)  |
| • Core i5-4570TE<br>(2C/4T, 2.7 (3.3) GHz,<br>4 MB cache, TB, VT-d, AMT);<br>mainboard without fieldbus   | I                                | • 500 GB HDD SATA in removable<br>drive bay; front  |
| • Core i5-4570TE<br>(2C/4T, 2.7 (3.3) GHz,<br>4 MB cache, TB, VT-x, VT-d, AMT);<br>mainboard with PROFIBUS/MPI<br>(CP 5622-compatible)  | J                                | • 1 TB HDD SATA in removable<br>drive bay; front  |
| • Core i5-4570TE<br>(2C/4T, 2.7 (3.3) GHz,<br>4 MB cache, TB, VT-d, AMT);<br>mainboard with PROFINET<br>(3 x RJ45, CP 1616-compatible)  | K                                | • 2 x 1 TB HDD SATA in removable<br>drive bay; front-mounted  |
| • Xeon E3-1268L v3<br>(4C/8T, 2.3 (3.3) GHz,<br>8 MB cache, TB, VT-d, AMT);<br>mainboard without fieldbus   | L                                | • RAID1, 1 TB (2 x 1 TB HDD SATA,<br>mirror disks) in removable drive<br>bay, hot-swappable, front  |
| • Xeon E3-1268L v3<br>(4C/8T, 2.3 (3.3) GHz,<br>8 MB cache, TB, VT-x, VT-d, AMT);<br>mainboard with PROFIBUS/MPI<br>(CP 5622-compatible)  | M                                | • 240 GB SSD SATA, internal   |
| • Xeon E3-1268L v3<br>(4C/8T, 2.3 (3.3) GHz,<br>8 MB cache, TB, VT-d, AMT);<br>mainboard with PROFINET<br>(3 x RJ45, CP 1616-compatible)  | N                                | • 240 GB SSD SATA in removable<br>drive bay; front  |
|   | O                                | • RAID1, 1 TB (2 x 1 TB HDD SAS,<br>mirror disks) in removable<br>drive bay, hot-swappable, front-<br>mounted; PCIe x8 RAID controller<br>including ZCMP module<br>(2 slots occupied) |
|   | P                                | • RAID1, 240 GB (2 x 240 GB SSD<br>SATA, mirror disks), in removable<br>drive bay, hot swap, at the front   |
|   | Q                                | Memory configuration  |
|   | R                                | • 2 GB DDR3 SDRAM (1 x 2 GB),<br>single channel   |
|   | S                                | • 4 GB DDR3 SDRAM (2 x 2 GB),<br>dual channel   |
|   | T                                | • 8 GB DDR3 SDRAM (2 x 4 GB),<br>dual channel   |
|   | U                                | • 16 GB DDR3 SDRAM (2 x 8 GB),<br>dual channel  |
|   | V                                | • 32 GB DDR3 SDRAM (4 x 8 GB),<br>dual channel  |
|   | W                                | • 8 GB DDR3 SDRAM, (2 x 4 GB),<br>ECC, dual channel   |
|   | X                                | • 16 GB DDR3 SDRAM, (2 x 8 GB),<br>ECC, dual channel  |
|   | Y                                | • 32 GB DDR3 SDRAM, (4 x 8 GB),<br>ECC, dual channel  |

| Ordering data  | Article No.        | Article No.        |
|--|--------------------|--------------------|
| <b>SIMATIC IPC647D</b>   | <b>6AG4112 - 2</b> | <b>6AG4112 - 2</b> |
| <u>Bus module/removable data storage media/SSD:</u>  |                    |                    |
| • Bus module 2-slot: 2 x PCIe x16; without drives  | <b>0</b>           | <b>A</b>           |
| • Bus module 4-slot: 2 x PCI, 2 x PCIe x16; without drives   | <b>1</b>           | <b>B</b>           |
| • Bus module 4-slot: 4 x PCIe x16; without drives  | <b>2</b>           | <b>C</b>           |
| • Bus module 2-slot: 2 x PCIe x16; DVD±RW (slim)   | <b>3</b>           | <b>D</b>           |
| • Bus module 4-slot: 2 x PCI, 2x PCIe x16; DVD±RW (slim)   | <b>4</b>           | <b>E</b>           |
| • Bus module 4-slot: 4 x PCIe x16; DVD±RW (slim)   | <b>5</b>           | <b>F</b>           |
| • Bus module 2-slot: 2 x PCIe x16/1 x 240 GB SSD (for operating system), internal  | <b>6</b>           | <b>G</b>           |
| • Bus module 4-slot: 2 x PCI, 2 x PCIe x16/1 x 240 GB SSD (for operating system), internal   | <b>7</b>           | <b>H</b>           |
| • Bus module 4-slot: 4 x PCIe x16/1 x 240 GB SSD (for operating system), internal  | <b>8</b>           | <b>X</b>           |
| <u>Expansion hardware</u>  |                    |                    |
| • Without expansions (hardware), onboard graphics;   | <b>0</b>           | <b>A</b>           |
| • Without expansions (hardware), onboard graphics, DVI-I adapter cable, VGA-compliant for onboard graphics;                            | <b>1</b>           | <b>B</b>           |
| • Serial (COM2) + parallel (LPT, 1 slot reserved), onboard graphics;   | <b>2</b>           | <b>C</b>           |
| • Serial (COM2) + parallel (LPT, 1 slot reserved), onboard graphics; DVI-I adapter cable, VGA-compliant for onboard graphics;          | <b>3</b>           | <b>X</b>           |
| • Serial (COM2) + parallel (LPT, 1 slot reserved) + PCIe x16 Graphics Card (Dual-Head: 2 x VGA or 2 x DVI-D), 1 GB, (1 slot occupied); | <b>4</b>           | <b>Y</b>           |
| • PCIe x16 graphics card (dual head: 2 x VGA or 2 x DVI-D), 1 GB, (1 slot occupied)  | <b>5</b>           |                    |
| <u>Expansions (software)/Security</u>  |                    |                    |
| • SIMATIC IPC DiagMonitor software enclosed  |                    | <b>A</b>           |
| • SIMATIC IPC Image Creator software included  |                    | <b>B</b>           |
| • SIMATIC IPC DiagMonitor and Image Creator software enclosed  |                    | <b>C</b>           |
| • Without software   |                    | <b>X</b>           |
| • TPM 1.2 <sup>1)</sup> (not for China and Russia)   |                    | <b>Y</b>           |
| <u>Power supply, with country-specific cable</u>   |                    |                    |
| • 110/240 V AC industrial power supply with NAMUR; power cable for Europe  | <b>0</b>           | <b>0</b>           |
| • 110/240 V AC industrial power supply with NAMUR; power cable for United Kingdom  |                    | <b>1</b>           |
| • 110/240 V AC industrial power supply with NAMUR; power cable for Switzerland   |                    | <b>2</b>           |
| • 110/240 V AC industrial power supply with NAMUR; power cable for the USA   |                    | <b>3</b>           |
| • 110/240 V AC industrial power supply with NAMUR; power cable for Italy   |                    | <b>4</b>           |
| • 110/240 V AC industrial power supply with NAMUR; power cable for China   |                    | <b>5</b>           |
| • 2 x 110/240 V AC redund. power supply; without power cable   |                    | <b>6</b>           |
| • 110/240 V AC industrial power supply with NAMUR; without power cable   |                    | <b>8</b>           |

<sup>1)</sup> TPM = Trusted Platform ModuleNote:

Please assemble the required IPC configuration using the TIA Selection Tool or the configurator in the Industry Mall in order to ensure suitability; we do not accept any liability for configurations compiled by users themselves.

For an up-to-date overview, see the SIMATIC IPC online configurator at:

<http://www.siemens.com/ipc-configurator>

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| <b>Ordering data</b>   | <b>Article No.</b>        | <b>Article No.</b>              |
|--|---------------------------|---------------------------------|
| <b>Accessories</b>   |                           |                                 |
| <b>Memory expansions</b>   |                           |                                 |
| • 2 GB DDR3 1600 DIMM  | <b>6ES7648-2AJ50-0MA0</b> | <b>6ES7900-0AA00-0XA0</b>       |
| • 4 GB DDR3 1600 DIMM  | <b>6ES7648-2AJ60-0MA0</b> | <b>6ES7900-0BA00-0XA0</b>       |
| • 8 GB DDR3 1600 DIMM  | <b>6ES7648-2AJ70-0MA0</b> | <b>6ES7900-0CA00-0XA0</b>       |
| • 8 GB DDR3 1600 DIMM, ECC   | <b>6ES7648-2AJ70-1MA0</b> | <b>6ES7900-0DA00-0XA0</b>       |
| <b>Hardware accessories</b>  |                           |                                 |
| <b>Tray for low-profile removable drive bay</b><br>For 3.5" hard drive (SATA/SAS) and 2.5" SSD (SATA), without drive | <b>6ES7648-0EG01-1BA0</b> | <b>6ES7900-0EA00-0XA0</b>       |
| <b>Filter mats</b><br>for SIMATIC IPC647D (packing unit: 10 units)   | <b>A5E02396171</b>        | <b>6ES7900-0FA00-0XA0</b>       |
| <b>Adapter cable</b>   |                           |                                 |
| • Adapter cable DisplayPort to DVI-D for onboard graphics  | <b>6ES7648-3AF00-0XA0</b> | <b>6ES7648-1AA00-0XK0</b>       |
| • Adapter cable DisplayPort to VGA for onboard graphics  | <b>6ES7648-3AG00-0XA0</b> | <b>See Expansion components</b> |
|  |                           | <b>Expansion components</b>     |
|  |                           | <b>Communication products</b>   |

Note:

Software Packages with SIMATIC WinCC flexible, WinCC RT Advanced, SIMATIC WinCC, and SIMATIC WinAC RTX (F) can be ordered together with the SIMATIC IPC at a price advantage. More information under "Embedded Bundles/Packages for industrial PCs".

Additional information is available on the Internet at:

<http://www.siemens.com/simatic-pc>