

## Overview



### SIMATIC IPC327E

Based on Intel Celeron process technology, the SIMATIC IPC327E Box PC represents a new IPC platform which has been specifically developed for cost-optimized, PC-based applications in industrial and industry-oriented environments.

It is above all distinguished by a large number of interfaces for easy connection to existing and new systems, fast availability from stock as well as a fanless industrial design.

## Technical specifications

Article number	<b>6AG4022-0A...-....</b> SIMATIC IPC327E
<b>Installation type/mounting</b>	
Mounting	Standard mounting rail, wall mounting (horizontal and vertical)
Design	Box PC, built-in unit
<b>Supply voltage</b>	
Type of supply voltage	24 V DC
<b>Mains buffering</b>	
• Mains/voltage failure stored energy time	10 ms
<b>Processor</b>	
Processor type	Intel Celeron N3160
<b>Drives</b>	
Hard disk	500 GB HDD
SSD	Yes; 256 GB SSD
<b>Memory</b>	
Type of memory	DDR3L
Main memory	4 GB, 8 GB
<b>Hardware configuration</b>	
<b>Slots</b>	
• free slots	1x mPCIe (half-size), 1x mSATA (full-size)
<b>Interfaces</b>	
Number of industrial Ethernet interfaces	2; 2x RJ45 (independent)
USB port	4x USB 2.0, 2x USB 3.0 (high current)
serial interface	6x COM (4x RS 232, 2x RS 232 / 422 / 485 switchable)
<b>Video interfaces</b>	
• Graphics interface	1x DisplayPort, 1x VGA
<b>Industrial Ethernet</b>	
• Industrial Ethernet interface	2x Ethernet (RJ45)
- 100 Mbps	Yes
- 1000 Mbps	Yes
<b>Protocols</b>	
<b>Protocols (Ethernet)</b>	
• TCP/IP	Yes
<b>Integrated Functions</b>	
<b>Monitoring functions</b>	
• Temperature monitoring	Yes
• Watchdog	Yes
• Status LEDs	POWER, HDD
• Fan	No

**PC-based Automation**

Industrial PC

Box PC

**SIMATIC IPC327E****Technical specifications (continued)**

Article number	<b>6AG4022-0A...-....</b> SIMATIC IPC327E
<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> <li>Interference immunity against discharge of static electricity acc. to IEC 61000-4-2           <ul style="list-style-type: none"> <li>- Test voltage at air discharge</li> <li>- Test voltage at contact discharge</li> </ul> </li> </ul>	±6 kV contact; ±8 kV air (to IEC 1000-4-2; ESD)  8 kV 6 kV
<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 ... 1 000 MHz, 80 % AM according to IEC 61000-4-3; 3 V/m for 1.4 ... 6 GHz, 80 % AM according to IEC 61000-4-3
<b>Interference immunity to cable-borne interference</b>	
<ul style="list-style-type: none"> <li>Interference immunity on supply cables</li> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul>	±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground)  ±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge  ±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> <li>symmetric interference</li> </ul>	±2 kV acc. to IEC 61000-4-5, surge asymmetric  ±1 kV acc. to IEC 61000-4-5, surge 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

Article number	<b>6AG4022-0A...-....</b> SIMATIC IPC327E
<b>Standards, approvals, certificates</b>	
CE mark	Yes
UL approval	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
<ul style="list-style-type: none"> <li>Ambient temperature during operation</li> </ul>	0 °C to 50 °C
<b>Relative humidity</b>	
<ul style="list-style-type: none"> <li>Relative humidity</li> </ul>	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
<b>Vibrations</b>	
<ul style="list-style-type: none"> <li>Vibration resistance during operation acc. to IEC 60068-2-6</li> </ul>	Tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s <sup>2</sup> (1 g)
<b>Shock testing</b>	
<ul style="list-style-type: none"> <li>Shock load during operation</li> </ul>	Tested in accordance with IEC 60068-2-27: With SSD: 150 m/s <sup>2</sup> , 11 ms; with HDD: 9.8 m/s <sup>2</sup> , 20 ms
<b>Operating systems</b>	
Operating system	Windows 7 Ultimate (Multi-Language), 64 bit; Windows 10 Enterprise 2016 LTSC, 64 bit
pre-installed operating system	Yes
without operating system	Yes; Optional
<b>Dimensions</b>	
Width	254 mm
Height	140 mm
Depth	75 mm

Ordering data	Article No.	Article No.
<b>SIMATIC IPC327E</b> 1 x display port graphic 1 x VGA port graphic 2x 10/100/1 000 Mbps Ethernet RJ45 2 x USB 3.0; 4 x USB 2.0; 6 x serial ports (COM)  <u>Processor</u> • Celeron N3160 (4C/4T)  <u>Work memory</u> • 4 GB RAM • 8 GB RAM  <u>Expansions/interfaces</u> • 1x mPCIe / 1x mSata  <u>Operating system</u> • Without operating system • Windows Ultimate SP1, 64-bit MUI (en, de, fr, it, es)  <u>Drives</u> • Without • 500 GB HDD • 256 GB SSD  <u>Power supply</u> • 24 V DC  <u>Mounting accessories</u> • Installation, VESA installation	<b>6AG4022-</b> 0 A <span style="border: 1px solid black; padding: 0 2px;">A</span> <span style="border: 1px solid black; padding: 0 2px;">-</span> <span style="border: 1px solid black; padding: 0 2px;">A</span> <span style="border: 1px solid black; padding: 0 2px;">B</span> <span style="border: 1px solid black; padding: 0 2px;">C</span> <span style="border: 1px solid black; padding: 0 2px;">A</span>	<b>Preferred variants (available ex stock)</b>  <b>SIMATIC IPC327E</b>  <b>Configuration 1</b> Intel Celeron Quad Core N3160 (1.6 GHz) 500 GB HDD SATA, internal 4 GB RAM (1 x 4 GB) Without operating system 24 V DC; interfaces: 2 x Gbit Ethernet (RJ45), 6 x USB 2.0; 2 x USB 3.0; 6 x serial, 1 x Display Port, 1 x VGA, audio  <b>Configuration 2</b> Intel Celeron Quad Core N3160 (1.6 GHz) 500 GB HDD SATA, internal 4 GB RAM (1 x 4 GB) Windows 7 Ultimate 64-bit 24 V DC; Interfaces: 2 x Gbit Ethernet (RJ45), 6 x USB 2.0; 2 x USB 3.0; 6 x serial, 1 x display port, 1 x VGA, audio  <b>Configuration 3</b> Intel Celeron Quad Core N3160 (1.6 GHz) 256 GB SSD, internal 4 GB RAM (1 x 4 GB) Without operating system 24 V DC; Interfaces: 2 x Gbit Ethernet (RJ45), 6 x USB 2.0; 2 x USB 3.0; 6 x serial, 1 x display port, 1 x VGA, audio  <b>Configuration 4</b> Intel Celeron Quad Core N3160 (1.6 GHz) 256 GB SSD, internal 4 GB RAM (1 x 4 GB) Windows 7 Ultimate 64-bit 24 V DC; Interfaces: 2 x Gbit Ethernet (RJ45), 6 x USB 2.0; 2 x USB 3.0; 6 x serial, 1 x display port, 1 x VGA, audio  <b>Configuration 5</b> Intel Celeron Quad Core N3160 (1.6 GHz) 256 GB SSD, internal 4 GB RAM (1 x 4 GB) Windows 10 Enterprise 2016 LTSC, 64-bit, MUI 24 V DC; Interfaces: 2 x Gbit Ethernet (RJ45), 6 x USB 2.0; 2 x USB 3.0; 6 x serial, 1 x display port, 1 x VGA, audio
		<b>6AG4022-0AA21-0BA1</b>  <b>6AG4022-0AA21-1BA1</b>  <b>6AG4022-0AA21-0CA1</b>  <b>6AG4022-0AA21-1CA1</b>  <b>6AG4022-0AA21-2CA1</b>

Further information can be found on the Internet at:

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