

SIMATIC IPC627E (Box PC), UHD Graphics onboard; DP/DVI-D; 3x Gigbit Ethernet (IE/PN); 6x USB V3.1 Gen.2; 1x serial (COM 1); RAID controller onboard; Watchdog, temperature and fan monitoring; Core i7-8700 (6C/12T, 3.2(4.6) GHz, 12 MB cache, VT-d, AMT); NVRAM; RAID1 2x SSD 2.5" SATA 480 GB in removable frame; 32 GB DDR4-2666 (2x16); 24 V DC industrial power supply Windows 10 Enterprise 2016 LTSB, 64 bit, MUI (en, de, fr, it, es) For Core i7; SIMATIC IPC DiagMonitor supplied; without expansion (HW); 3x PCI, 2x PCIe (x16, x4);

| Installation type/mounting   |   |
|--|---|
| Mounting   | Wall mounting, portrait mounting  |
| Design   | Box PC, built-in unit   |
| Supply voltage   |   |
| Type of supply voltage   | 100/240 V AC (autorange); 24 V DC   |
| Line frequency   |   |
| <ul style="list-style-type: none"> <li>Rated value 50 Hz</li> <li>Rated value 60 Hz</li> </ul>   | Yes<br>Yes  |
| Mains buffering  |   |
| <ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>   | 20 ms   |
| Processor  |   |
| Processor type   | Celeron G4900 (2C/2T, 3.1 GHz, 2 MB cache; VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d, AMT)     |
| Chipset  | Intel C246  |
| Graphic  |   |
| Graphics controller  | Intel UHD Graphics 630 (Core i); Intel UHD Graphics 610 (Celeron)   |
| Drives   |   |
| Hard disk  | 2.5" SATA ≥ 320 GB  |
| SSD  | Yes; SSD M.2 NVMe 512 GB; SSD 2.5" SATA 480 / 960 GB; RAID1 2x SSD 2.5" SATA 480 / 960 GB in removable drive bay  |
| Memory   |   |
| Type of memory   | DDR4-2666 DIMM  |
| Main memory  | 4 / 8 / 16 / 32 / 64 GB   |
| Capacity of main memory, max.  | 64 Gbyte  |
| Data areas and their retentivity   |   |
| Retentive data area (incl. timers, counters, flags), max.  | 512 kbyte; 128 KB can be stored in the buffer time  |
| Hardware configuration   |   |
| Slots  |   |
| <ul style="list-style-type: none"> <li>free slots</li> <li>Number of PCI slots</li> <li>Number of PCI slots</li> </ul>   | 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (1x16, 2x4, 2x1); with card retainer<br>5; Optional<br>5; Optional |
| Interfaces   |   |
| Number of industrial Ethernet interfaces   | 3; 3x Ethernet (RJ45)   |
| USB port   | 6x USB 3.1 Gen. 2 (2x type C)   |
| Connection for keyboard/mouse  | USB / USB   |
| serial interface   | 1x COM  |
| Video interfaces   |   |
| <ul style="list-style-type: none"> <li>Graphics interface</li> </ul>   | 2x DisplayPort; 1x DVI-D  |
| Industrial Ethernet  |   |
| <ul style="list-style-type: none"> <li>Industrial Ethernet interface               <ul style="list-style-type: none"> <li>— 100 Mbps</li> <li>— 1000 Mbps</li> </ul> </li> </ul> | 3x Ethernet (RJ45)<br>Yes<br>Yes  |
| Integrated Functions   |   |
| Monitoring functions   |   |
| <ul style="list-style-type: none"> <li>Temperature monitoring</li> </ul>   | Yes   |

|   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• Watchdog</li> <li>• Status LEDs</li> <li>• Fan</li> <li>• Monitoring function via network</li> </ul>   | <p>Yes</p> <p>1x power, 3x user</p> <p>Yes</p> <p>Optional</p>   |
| <b>EMC</b>  |  |
| Interference immunity against discharge of static electricity   |  |
| <ul style="list-style-type: none"> <li>• Interference immunity against discharge of static electricity</li> </ul>   | ±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2   |
| Interference immunity against high-frequency electromagnetic fields   |  |
| <ul style="list-style-type: none"> <li>• Interference immunity against high frequency radiation</li> </ul>  | 10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6   |
| Interference immunity to cable-borne interference   |  |
| <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> | <p>±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric</p> <p>±2 kV acc. to IEC 61000-4-5, surge, length &gt; 30 m</p> <p>±1 kV acc. to IEC 61000-4-4; burst; length &lt; 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length &gt; 3 m</p> |
| Interference immunity against voltage surge   |  |
| <ul style="list-style-type: none"> <li>• asymmetric interference</li> <li>• symmetric interference</li> </ul>   | <p>±2 kV acc. to IEC 61000-4-5, surge asymmetric</p> <p>±1 kV acc. to IEC 61000-4-5, surge symmetric</p>   |
| Interference immunity to magnetic fields  |  |
| <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  |
| Emission of conducted and non-conducted interference  |  |
| <ul style="list-style-type: none"> <li>• Interference emission via line/AC current cables</li> </ul>  | EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A  |
| <b>Degree and class of protection</b>   |  |
| IP degree of protection   | IP20   |
| <b>Standards, approvals, certificates</b>   |  |
| CE mark   | Yes  |
| UL approval   | Yes  |
| cULus   | Yes  |
| RCM (formerly C-TICK)   | Yes  |
| KC approval   | Yes  |
| EAC (formerly Gost-R)   | Yes  |
| FCC   | Yes  |
| EMC   | CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005  |
| Marine approval   |  |
| <ul style="list-style-type: none"> <li>• American Bureau of Shipping (ABS)</li> <li>• Det Norske Veritas (DNV)</li> <li>• Nippon Kaiji Kyokai (Class NK)</li> </ul>   | <p>Yes</p> <p>Yes</p> <p>Yes</p>   |
| <b>Ambient conditions</b>   |  |
| Ambient temperature during operation  |  |
| <ul style="list-style-type: none"> <li>• min.</li> <li>• max.</li> </ul>  | <p>5 °C</p> <p>55 °C</p>   |
| Ambient temperature during storage/transportation   |  |
| <ul style="list-style-type: none"> <li>• min.</li> <li>• max.</li> </ul>  | <p>-20 °C</p> <p>60 °C</p>   |
| Relative humidity   |  |
| <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 80% at 25 °C (no condensation), Storage: 5% to 95% at 25 °C (no condensation)   |
| Vibrations  |  |
| <ul style="list-style-type: none"> <li>• Vibration resistance during operation acc. to IEC 60068-2-6</li> </ul>   | tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s <sup>2</sup> (1 g)  |
| Shock testing   |  |
| <ul style="list-style-type: none"> <li>• Shock load during operation</li> </ul>   | Tested to DIN IEC 60068-2-29: 50 m/s <sup>2</sup> (5 g), 30 ms, 100 shocks   |
| <b>Operating systems</b>  |  |
| pre-installed operating system  | Windows 10 Enterprise 2016 LTSP or 2019 LTSC 64-bit, MUI   |
| without operating system  | Yes; Optional  |
| pre-installed operating system  |  |
| <ul style="list-style-type: none"> <li>• Windows 10 Enterprise</li> </ul>   | Yes; Windows 10 Enterprise 2016 LTSP or 2019 LTSC 64-bit, MUI  |
| <b>Software</b>   |  |
| SIMATIC Software  | Optional package with SIMATIC WinCC  |

| Dimensions |                                      |
|------------|--------------------------------------|
| Width      | 314 mm                               |
| Height     | 93 mm; For variant 5x PCI(e): 155 mm |
| Depth      | 301 mm; incl. mounting rail          |

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