

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); RAID1 2x SSD SATA 2.5" 480 GB internal; 16 GB DDR4-2666 (2x8); 24 V DC industrial power supply Windows 10 Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es) For Core i7; without expansion (software); without expansion (HW); 2x PCI

| 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   |
| 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   |

|   |  |
|---|--|
| • Watchdog  | Yes  |
| • Fan   | Yes  |
| • Monitoring function via network                                   | Optional   |
| <b>EMC</b>  |  |
| Interference immunity against discharge of static electricity       |  |
| • Interference immunity against discharge of static electricity     | ±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 |  |
| • Interference immunity against high frequency radiation            | 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                   |  |
| • Interference immunity on supply cables                            | ±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  |
| • Interference immunity on signal cables >30m                       | ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m  |
| • Interference immunity on signal cables < 30m                      | ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m   |
| Interference immunity against voltage surge                         |  |
| • asymmetric interference   | ±2 kV acc. to IEC 61000-4-5, surge asymmetric  |
| • symmetric interference  | ±1 kV acc. to IEC 61000-4-5, surge symmetric   |
| Interference immunity to magnetic fields                            |  |
| • Interference immunity to magnetic fields at 50 Hz                 | 100 A/m; to IEC 61000-4-8  |
| Emission of conducted and non-conducted interference                |  |
| • Interference emission via line/AC current cables                  | 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   |  |
| • American Bureau of Shipping (ABS)                                 | Yes  |
| • Det Norske Veritas (DNV)  | Yes  |
| • Nippon Kaiji Kyokai (Class NK)                                    | Yes  |
| <b>Ambient conditions</b>   |  |
| Ambient temperature during operation                                |  |
| • min.  | 5 °C   |
| • max.  | 55 °C  |
| Ambient temperature during storage/transportation                   |  |
| • min.  | -20 °C   |
| • max.  | 60 °C  |
| Relative humidity   |  |
| • Relative humidity   | 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  |  |
| • Vibration resistance during operation acc. to IEC 60068-2-6       | 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   |  |
| • Shock load during operation                                       | 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 LTSC or 2019 LTSC 64-bit, MUI   |
| without operating system  | Yes; Optional  |
| pre-installed operating system                                      |  |
| • Windows 10 Enterprise   | Yes; Windows 10 Enterprise 2016 LTSC 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          |

**Approvals / Certificates**

**General Product Approval**



[Manufacturer Declaration](#)



[inspection certificate](#)

**General Product Approval** **Maritime application**



[BIS CRS](#)



**Maritime application**



[NK / Nippon Kaiji Kyokai](#)

[CCS \(China Classification Society\)](#)

[KR \(Korean Register of Shipping\)](#)

**other** **Dangerous goods** **Environment**



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