

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 2.5" SATA 960 GB in removable frame; 64 GB DDR4-2666 (4x16); 24 V DC industrial power supply Windows 10 Enterprise 2016 LTSB, 64 bit, MUI (en, de, fr, it, es) For Core i7; without expansion (software); without expansion (HW); 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"> Rated value 50 Hz Rated value 60 Hz | <ul style="list-style-type: none"> Yes Yes |
| Mains buffering | |
| <ul style="list-style-type: none"> Mains/voltage failure stored energy time | 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"> free slots Number of PCI slots Number of PCI slots | <ul style="list-style-type: none"> 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 5; Optional 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"> Graphics interface | 2x DisplayPort; 1x DVI-D |
| Industrial Ethernet | |
| <ul style="list-style-type: none"> Industrial Ethernet interface <ul style="list-style-type: none"> — 100 Mbps — 1000 Mbps | <ul style="list-style-type: none"> 3x Ethernet (RJ45) <ul style="list-style-type: none"> Yes Yes |
| Integrated Functions | |
| Monitoring functions | |
| <ul style="list-style-type: none"> Temperature monitoring Watchdog | <ul style="list-style-type: none"> Yes Yes |

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|---|--|
| <ul style="list-style-type: none"> • Status LEDs • Fan • Monitoring function via network | <p>1x power, 3x user</p> <p>Yes</p> <p>Optional</p> |
| EMC | |
| Interference immunity against discharge of static electricity | |
| <ul style="list-style-type: none"> • 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 | |
| <ul style="list-style-type: none"> • 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 | |
| <ul style="list-style-type: none"> • Interference immunity on supply cables • Interference immunity on signal cables >30m • Interference immunity on signal cables < 30m | <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 > 30 m</p> <p>±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m</p> |
| Interference immunity against voltage surge | |
| <ul style="list-style-type: none"> • asymmetric interference • symmetric interference | <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"> • Interference immunity to magnetic fields at 50 Hz | 100 A/m; to IEC 61000-4-8 |
| Emission of conducted and non-conducted interference | |
| <ul style="list-style-type: none"> • Interference emission via line/AC current cables | EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A |
| Degree and class of protection | |
| IP degree of protection | IP20 |
| Standards, approvals, certificates | |
| 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"> • American Bureau of Shipping (ABS) • Det Norske Veritas (DNV) • Nippon Kaiji Kyokai (Class NK) | <p>Yes</p> <p>Yes</p> <p>Yes</p> |
| Ambient conditions | |
| Ambient temperature during operation | |
| <ul style="list-style-type: none"> • min. • max. | <p>5 °C</p> <p>55 °C</p> |
| Ambient temperature during storage/transportation | |
| <ul style="list-style-type: none"> • min. • max. | <p>-20 °C</p> <p>60 °C</p> |
| Relative humidity | |
| <ul style="list-style-type: none"> • 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 | |
| <ul style="list-style-type: none"> • 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 ² (1 g) |
| Shock testing | |
| <ul style="list-style-type: none"> • Shock load during operation | Tested to DIN IEC 60068-2-29: 50 m/s ² (5 g), 30 ms, 100 shocks |
| Operating systems | |
| pre-installed operating system | Windows 10 Enterprise 2016 LTSC or 2019 LTSC 64-bit, MUI |
| without operating system | Yes; Optional |
| pre-installed operating system | |
| <ul style="list-style-type: none"> • Windows 10 Enterprise | Yes; Windows 10 Enterprise 2016 LTSC or 2019 LTSC 64-bit, MUI |
| Software | |
| SIMATIC Software | Optional package with SIMATIC WinCC |
| Dimensions | |

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

last modified: 6/25/2021 