



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 i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); RAID1 2x SSD 2.5" SATA 480 GB in removable frame; 16 GB DDR4-2666 (2x8); 24 V DC industrial power supply Windows 10 IoT Enterprise 2021 LTSC, 64-bit, MUI (en,de,fr,it,es); for Celeron and i3; with TPM; without expansion (HW); 1x PCIe (x16), 1x PCI

| General information | |
|--|---|
| Product type designation | IPC627E |
| 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 | 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 | 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 3; 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 | 3x Ethernet (RJ45) Yes Yes |

| | |
|--|--|
| Interrupts/diagnostics/status information | |
| LED status display | 1x power, 3x user |
| Integrated Functions | |
| Monitoring functions | |
| • Temperature monitoring | Yes |
| • Watchdog | Yes |
| • Fan | Yes |
| • Monitoring function via network | Optional |
| EMC | |
| 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 |
| Degree and class of protection | |
| IP degree of protection | IP20 |
| Standards, approvals, certificates | |
| CE mark | Yes |
| UL approval | Yes |
| cULus | Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| EAC (formerly Gost-R) | Yes |
| FCC | Yes |
| BSMI | Yes |
| EMC | CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005 |
| Use in hazardous areas | |
| • cULus Class I Zone 2, Division 2 | Yes; Optional |
| Marine approval | |
| • American Bureau of Shipping (ABS) | Yes; Only with SSD |
| • Bureau Veritas (BV) | Yes; Only with SSD |
| • Det Norske Veritas (DNV) | Yes; Only with SSD |
| • Korean Register of Shipping (KRS) | Yes; Only with SSD |
| • Lloyds Register of Shipping (LRS) | Yes; Only with SSD |
| • Nippon Kaiji Kyokai (Class NK) | Yes; Only with SSD |
| • Chinese Classification Society (CCS) | Yes; Only with SSD |
| Ambient conditions | |
| 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/s² (1 g)

Shock testing

- Shock load during operation

Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks

Operating systems

pre-installed operating system Windows 10 Enterprise 2016 LTSB or 2019 LTSC or 2021 LTSC 64 bit, MUI

without operating system Yes; Optional

pre-installed operating system

- Windows 10 Enterprise

Yes; Windows 10 Enterprise 2016 LTSB or 2019 LTSC or 2021 LTSC 64 bit, MUI

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



[Confirmation](#)



EG-Konf.



VDE



EMV Radio Equipment Type Approval Certificate Test Certificates



RCM

[Miscellaneous](#)

[Industry Canada \(IC\)](#)

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Test Certificates Maritime application

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ABS



BUREAU VERITAS



DNV



LRS



PRS

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Siemens EcoTech



Environment



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