

SIMATIC IPC627E (Box PC), UHD Graphics onboard; DP/DVI-D; 3x Gigabit 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 SATA 2.5" 480 GB internal; 8 GB DDR4-2666 (2x4); 110/230 V AC industrial power supply unit with NAMUR; power supply cable Europe; Windows 10 Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es) For Celeron and Core i3; SIMATIC IPC DiagMonitor supplied; 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                                            |                                                                                                                                                                 |
| • Rated value 50 Hz                                       | Yes                                                                                                                                                             |
| • Rated value 60 Hz                                       | Yes                                                                                                                                                             |
| Mains buffering                                           |                                                                                                                                                                 |
| • 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                                                     |                                                                                                                                                                 |
| • free 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                           |
| • Number of PCI slots                                     | 5; Optional                                                                                                                                                     |
| • Number of PCI slots                                     | 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                                          |                                                                                                                                                                 |
| • Graphics interface                                      | 2x DisplayPort; 1x DVI-D                                                                                                                                        |
| Industrial Ethernet                                       |                                                                                                                                                                 |
| • Industrial Ethernet interface                           | 3x Ethernet (RJ45)                                                                                                                                              |
| — 100 Mbps                                                | Yes                                                                                                                                                             |
| — 1000 Mbps                                               | Yes                                                                                                                                                             |
| Integrated Functions                                      |                                                                                                                                                                 |
| Monitoring functions                                      |                                                                                                                                                                 |
| • Temperature monitoring                                  | Yes                                                                                                                                                             |

|                                   |                   |
|-----------------------------------|-------------------|
| • Watchdog                        | Yes               |
| • Status LEDs                     | 1x power, 3x user |
| • 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                                               |
| 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                                               |

## Ambient conditions

|                                                               |                                                                                                                                                    |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature during operation                          |                                                                                                                                                    |
| • Ambient temperature during operation                        | +5 °C up to 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 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 |

## Software

|                  |                                     |
|------------------|-------------------------------------|
| SIMATIC Software | Optional package with SIMATIC WinCC |
|------------------|-------------------------------------|

## Dimensions

|       |        |
|-------|--------|
| Width | 314 mm |
|-------|--------|

Height  
Depth

93 mm; For variant 5x PCI(e): 155 mm  
301 mm; incl. mounting rail

**last modified:**

1/26/2023 