

SIMATIC IPC627D (Box PC), HD graphic onboard, 2x Gigabit Ethernet (IE/PN) 4xUSB V3.0; 1x serial (COM 1); RAID controller onboard; Watchdog, temp./fan monitoring

### 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> </ul>                        | Yes                               |
| <ul style="list-style-type: none"> <li>Rated value 60 Hz</li> </ul>                        | Yes                               |
| Mains buffering  |                                   |
| <ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul> | 20 ms                             |

### Processor

|                |   |
|----------------|---|
| Processor type | Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT) |
| Chipset        | Intel DH82C226 PCH  |

### Graphic

|                     |  |
|---------------------|--|
| Graphics controller | Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron) |
|---------------------|--|

### Drives

|                |  |
|----------------|--|
| Optical drives | DVD±R±RW combi-drive, optional   |
| Hard disk      | 3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay |
| SSD            | Yes; ≥ 240 GB optional   |

### Memory

|                               |                                 |
|-------------------------------|---------------------------------|
| Type of memory                | DDR3 1600 DIMM                  |
| Main memory                   | 2 / 4 / 8 / 16 GB; ECC optional |
| Capacity of main memory, max. | 16 Gbyte                        |

### Data areas and their retentivity

|   |  |
|---|--|
| Retentive data area (incl. timers, counters, flags), max. | 2 Mbyte; 128 KB can be stored in the buffer time; optional |
|---|--|

### Hardware configuration

| Slots                  |   |
|------------------------|---|
| • free slots           | 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); with card retainer |
| • Number of PCI slots  | 2; Optional   |
| • Number of PCIe slots | 2; Optional   |

## Interfaces

|  |   |
|--|---|
| PROFIBUS/MPI                             | Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 |
| Number of industrial Ethernet interfaces | 2; 2x RJ45 (independent)  |
| Number of PROFINET interfaces            | 3; Optional   |
| USB port                                 | 4x USB 3.0  |
| Connection for keyboard/mouse            | USB / USB   |
| serial interface                         | 1x COM1 (RS 232), optional: 1x COM2 (RS 232)                          |
| parallel interface                       | optional LPT1   |

## Video interfaces

|                      |  |
|----------------------|--|
| • Graphics interface | 1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional) |
|----------------------|--|

## Industrial Ethernet

|                                 |  |
|---------------------------------|--|
| • Industrial Ethernet interface | Onboard, 2x 10 / 100 / 1000 Mbit, RJ45 |
| — 100 Mbps                      | Yes                                    |
| — 1000 Mbps                     | Yes                                    |

## Interrupts/diagnostics/status information

|                 |     |
|-----------------|-----|
| Bus diagnostics | Yes |
|-----------------|-----|

## Integrated Functions

### Monitoring functions

|                                   |          |
|-----------------------------------|----------|
| • Temperature monitoring          | Yes      |
| • Watchdog                        | Yes      |
| • Status LEDs                     | 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 - 1000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 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   |
| <b>Interference immunity against voltage surge</b>          |  |
| • asymmetric interference                                   | ±2 kV acc. to IEC 61000-4-5, surge asymmetric  |
| • symmetric interference                                    | ±1 kV acc. to IEC 61000-4-5, surge symmetric   |
| <b>Interference immunity to magnetic fields</b>             |  |
| • Interference immunity to magnetic fields at 50 Hz         | 100 A/m; to IEC 61000-4-8  |
| <b>Emission of conducted and non-conducted interference</b> |  |
| • 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 (at the front)   | IP20   |
| IP (rear)   | IP20   |
| <b>Standards, approvals, certificates</b>                   |  |
| CE mark   | Yes  |
| UL approval   | Yes  |
| • UL 508  | Yes  |
| cULus   | Yes  |
| RCM (formerly C-TICK)                                       | Yes  |
| KC approval   | Yes  |
| FCC   | Yes  |
| EMC   | CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005  |
| <b>Marine approval</b>                                      |  |
| • Germanischer Lloyd (GL)                                   | Yes  |
| • American Bureau of Shipping (ABS)                         | Yes  |
| • Bureau Veritas (BV)                                       | Yes  |
| • Det Norske Veritas (DNV)                                  | Yes  |
| • Lloyds Register of Shipping (LRS)                         | Yes  |
| • Nippon Kaiji Kyokai (Class NK)                            | Yes  |
| <b>Ambient conditions</b>                                   |  |
| <b>Ambient temperature during operation</b>                 |  |
| • Ambient temperature during operation                      | +5 °C up to 55 °C  |
| • min.  | 5 °C   |
| • max.  | 55 °C  |
| <b>Ambient temperature during storage/transportation</b>    |  |
| • min.  | -20 °C   |
| • max.  | 60 °C  |
| <b>Relative humidity</b>                                    |  |
| • 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"> <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> (1g)                               |
| 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   |
| Operating systems   |  |
| Operating system  | Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI |
| pre-installed operating system  | Yes  |
| without operating system  | Yes  |
| pre-installed operating system  |  |
| <ul style="list-style-type: none"> <li>Windows 7</li> </ul>   | Yes; Ultimate 32 bits or 64 bits   |
| <ul style="list-style-type: none"> <li>Windows 10 IoT Enterprise</li> </ul>                                   | Yes; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  |
| Software  |  |
| SIMATIC Software  | Optional package with SIMATIC WinCC or WinAC RTX   |
| Dimensions  |  |
| Width   | 312 mm   |
| Height  | 81 mm; with DVD drive: 105 mm  |
| Depth   | 301 mm; incl. mounting rail  |
| <b>last modified:</b>   | 05/20/2018   |