

SIMATIC IPC677D (Panel PC), 2x10/100/1000 Mbit/s Ethernet; 4x USB V3.0, 1x serial (COM1); Watchdog, temperature and Fan monitoring; RAID controller onboard; 15" Touch (1280x 800); with front USB Core I3-4330TE (2C/4T, 2.4 GHz, 4 MB cache, VT-X); PROFIBUS/MPI CP 5622-compatible); 2 MB buffered SRAM 500 GB HDD SATA; DVD +/-RW; 2 GB DDR3 1600 DIMM; 2x PCI without expansion (HW) without operating system without expansion (software) AC 110/230V industrial power supply unit with NAMUR; Power supply cable China

| General information                        |                                   |
|--------------------------------------------|-----------------------------------|
| Product type designation                   | IPC677D                           |
| Display                                    |                                   |
| Design of display                          | 15" TFT touch                     |
| Screen diagonal                            | 15 in                             |
| Resolution (pixels)                        |                                   |
| • Horizontal image resolution              | 1 280 Pixel                       |
| • Vertical image resolution                | 800 Pixel                         |
| Backlighting                               |                                   |
| • MTBF backlighting (at 25 °C)             | 80 000 h                          |
| Control elements                           |                                   |
| Input device                               |                                   |
| • Mouse, at front                          | Front USB 2.0 (500mA)             |
| Touch operation                            |                                   |
| • Design as touch screen                   | Yes; analog, resistive            |
| Installation type/mounting                 |                                   |
| Design                                     | Panel PC, built-in unit           |
| central design                             | Yes                               |
| Mounting in portrait format possible       | Yes                               |
| maximum permissible installation angle +/- | 20°                               |
| 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 | 10 ms                             |
| Power loss                                 |                                   |

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|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| In full configuration                                                   | 155 W                                                                                                                                                                                                                                  |
| <b>Processor</b>                                                        |                                                                                                                                                                                                                                        |
| 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                                                                                                                                                                                                                     |
| <b>Graphic</b>                                                          |                                                                                                                                                                                                                                        |
| Graphics controller                                                     | Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)                                                                                                                                         |
| <b>Drives</b>                                                           |                                                                                                                                                                                                                                        |
| 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                                                                                                                                                                                                                 |
| <b>Memory</b>                                                           |                                                                                                                                                                                                                                        |
| Type of memory                                                          | DDR3-1600 DIMM                                                                                                                                                                                                                         |
| Main memory                                                             | 2 / 4 / 8 / 16 GB; ECC optional                                                                                                                                                                                                        |
| Capacity of main memory, max.                                           | 16 Gbyte                                                                                                                                                                                                                               |
| <b>Data areas and their retentivity</b>                                 |                                                                                                                                                                                                                                        |
| Retentive data area (incl. timers, counters, flags), max.               | 2 Mbyte; 128 KB can be stored in the buffer time; optional                                                                                                                                                                             |
| <b>Hardware configuration</b>                                           |                                                                                                                                                                                                                                        |
| <b>Slots</b>                                                            |                                                                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• free slots</li> </ul>          | 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); with card retainer                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• Number of PCI slots</li> </ul> | 2                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• Number of PCI slots</li> </ul> | 2                                                                                                                                                                                                                                      |
| <b>Interfaces</b>                                                       |                                                                                                                                                                                                                                        |
| 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                                                                                                                                                                                                                          |
| <b>Video interfaces</b>                                                 |                                                                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• Graphics interface</li> </ul>  | 1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional)                                                                                                                                                                       |
| <b>Industrial Ethernet</b>                                              |                                                                                                                                                                                                                                        |

|                                                                                                                                                                    |                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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> | Onboard, 2x 10 / 100 / 1000 Mbit, RJ45                                                                                                                                               |
|                                                                                                                                                                    | Yes                                                                                                                                                                                  |
|                                                                                                                                                                    | Yes                                                                                                                                                                                  |
| <b>Interrupts/diagnostics/status information</b>                                                                                                                   |                                                                                                                                                                                      |
| Bus diagnostics                                                                                                                                                    | Yes                                                                                                                                                                                  |
| <b>Integrated Functions</b>                                                                                                                                        |                                                                                                                                                                                      |
| <b>Monitoring functions</b>                                                                                                                                        |                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>Temperature monitoring</li> </ul>                                                                                           | Yes                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>Watchdog</li> </ul>                                                                                                         | Yes                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>Status LEDs</li> </ul>                                                                                                      | Yes                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>Fan</li> </ul>                                                                                                              | Yes                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>Monitoring function via network</li> </ul>                                                                                  | Optional                                                                                                                                                                             |
| <b>EMC</b>                                                                                                                                                         |                                                                                                                                                                                      |
| <b>Interference immunity against discharge of static electricity</b>                                                                                               |                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>Interference immunity against discharge of static electricity</li> </ul>                                                    | ±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2                                                                                             |
| <b>Interference immunity against high-frequency electromagnetic fields</b>                                                                                         |                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>Interference immunity against high frequency radiation</li> </ul>                                                           | 10 V/m for 80 - 1 000 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 |
| <b>Interference immunity to cable-borne interference</b>                                                                                                           |                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>Interference immunity on supply cables</li> </ul>                                                                           | ±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                                                      |
| <ul style="list-style-type: none"> <li>Interference immunity on signal cables &gt;30m</li> </ul>                                                                   | ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m                                                                                                                                    |
| <ul style="list-style-type: none"> <li>Interference immunity on signal cables &lt; 30m</li> </ul>                                                                  | ±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>                                                                                                                 |                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>asymmetric interference</li> </ul>                                                                                          | ±2 kV acc. to IEC 61000-4-5, surge asymmetric                                                                                                                                        |
| <ul style="list-style-type: none"> <li>symmetric interference</li> </ul>                                                                                           | ±1 kV acc. to IEC 61000-4-5, surge symmetric                                                                                                                                         |
| <b>Interference immunity to magnetic fields</b>                                                                                                                    |                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul>                                                                | 100 A/m; to IEC 61000-4-8                                                                                                                                                            |
| <b>Emission of conducted and non-conducted interference</b>                                                                                                        |                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>Interference emission via line/AC current cables</li> </ul>                                                                 | 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)                                                                                                                                                  | IP65                                                                                                                                                                                 |
| 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 61000-6-4:2007, EN 61000-6-2:2005 |

| Ambient conditions                                |                                                                                          |
|---------------------------------------------------|------------------------------------------------------------------------------------------|
| Ambient temperature during operation              |                                                                                          |
| • Ambient temperature during operation            | +5 °C to +45 °C with full configuration                                                  |
| 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: 5% to 80% at 25 °C (no condensation) |

| Operating systems              |                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| pre-installed 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 |
| without operating system       | Yes                                                                                                                                      |
| pre-installed operating system |                                                                                                                                          |
| • Windows 7                    | Yes; Ultimate 32 bit or 64 bit                                                                                                           |
| • Windows 10 Enterprise        | Yes; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI                                                                                |

| Dimensions                                  |        |
|---------------------------------------------|--------|
| Width of the housing front                  | 415 mm |
| Height of housing front                     | 310 mm |
| Mounting cutout, width                      | 396 mm |
| Mounting cutout, height                     | 291 mm |
| Overall depth                               | 112 mm |
| • additional mounting depth (optical drive) | 26 mm  |

| Weights               |            |
|-----------------------|------------|
| Weight, approx.       | 12 kg      |
| <b>last modified:</b> | 06/09/2020 |