

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" Multitouch (1366x 768) Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB cache) 500 GB HDD SATA; 4 GB DDR3 1600 DIMM; 2x PCI without expansion (HW) Windows 10 Enterprise LTSC 2016, 64 bit, MUI (en, de, fr, it, es) for Celeron and I3; without expansion (software) AC 110/230V industrial power supply unit with NAMUR; Power supply cable USA

| Display                                                   |                                                                                                                                                                                                                                        |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design of display                                         | 15" TFT multi-touch                                                                                                                                                                                                                    |
| Screen diagonal                                           | 15 in                                                                                                                                                                                                                                  |
| Resolution (pixels)                                       |                                                                                                                                                                                                                                        |
| • Horizontal image resolution                             | 1 366 pixel                                                                                                                                                                                                                            |
| • Vertical image resolution                               | 768 pixel                                                                                                                                                                                                                              |
| Backlighting                                              |                                                                                                                                                                                                                                        |
| • MTBF backlighting (at 25 °C)                            | 70 000 h                                                                                                                                                                                                                               |
| Control elements                                          |                                                                                                                                                                                                                                        |
| Touch operation                                           |                                                                                                                                                                                                                                        |
| • Design as multi-touch screen                            | Yes; Projective-capacitive                                                                                                                                                                                                             |
| Installation type/mounting                                |                                                                                                                                                                                                                                        |
| Mounting                                                  | For horizontal and vertical mounting                                                                                                                                                                                                   |
| Design                                                    | Panel PC, built-in unit                                                                                                                                                                                                                |
| central design                                            | Yes                                                                                                                                                                                                                                    |
| Mounting in portrait format possible                      | Yes                                                                                                                                                                                                                                    |
| 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                                                                                                                                                                                                                                  |
| 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                                                                                                                                                                                                                 |
| Storage                                                   |                                                                                                                                                                                                                                        |
| 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                                                     |                                                                                                                                                                                                                                        |
| • Number of PCI slots                                     | 2                                                                                                                                                                                                                                      |

|                                                               |                                                                                                                                          |         |                |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------|
| • Number of PCI slots                                         | 2                                                                                                                                        |         |                |
| Interfaces                                                    |                                                                                                                                          |         |                |
| Number of industrial Ethernet interfaces                      | 2; 2x RJ45 (independent)                                                                                                                 |         |                |
| Number of PROFINET interfaces                                 | 3; Optional                                                                                                                              |         |                |
| serial interface                                              | 1x COM1 (RS 232), optional: 1x COM2 (RS 232)                                                                                             |         |                |
| Video interfaces                                              |                                                                                                                                          |         |                |
| • Graphics interface                                          | 1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional)                                                                         |         |                |
| Industrial Ethernet                                           |                                                                                                                                          |         |                |
| • Industrial Ethernet interface                               |                                                                                                                                          |         |                |
| — 100 Mbps                                                    | Yes                                                                                                                                      |         |                |
| — 1000 Mbps                                                   | Yes                                                                                                                                      |         |                |
| Interrupts/diagnostics/status information                     |                                                                                                                                          |         |                |
| LED status display                                            | Yes                                                                                                                                      |         |                |
| Bus diagnostics                                               | Yes                                                                                                                                      |         |                |
| Integrated Functions                                          |                                                                                                                                          |         |                |
| Monitoring functions                                          |                                                                                                                                          |         |                |
| • Temperature monitoring                                      | Yes                                                                                                                                      |         |                |
| • Fan                                                         | Yes                                                                                                                                      |         |                |
| • Monitoring function via network                             | Optional                                                                                                                                 |         |                |
| Degree and class of protection                                |                                                                                                                                          |         |                |
| IP degree of protection                                       | IP20                                                                                                                                     |         |                |
| IP (at the front)                                             | IP65                                                                                                                                     |         |                |
| IP (rear)                                                     | IP20                                                                                                                                     |         |                |
| Standards, approvals, certificates                            |                                                                                                                                          |         |                |
| CE mark                                                       | Yes                                                                                                                                      |         |                |
| UL approval                                                   | Yes                                                                                                                                      |         |                |
| • UL 508                                                      | Yes                                                                                                                                      |         |                |
| cULus                                                         | Yes                                                                                                                                      |         |                |
| RCM (formerly C-TICK)                                         | Yes                                                                                                                                      |         |                |
| KC approval                                                   | Yes                                                                                                                                      |         |                |
| FCC                                                           | Yes                                                                                                                                      |         |                |
| Ambient conditions                                            |                                                                                                                                          |         |                |
| Ambient temperature during operation                          |                                                                                                                                          |         |                |
| • min.                                                        | 5 °C                                                                                                                                     |         |                |
| • max.                                                        | 45 °C                                                                                                                                    |         |                |
| Ambient temperature during storage/transportation             |                                                                                                                                          |         |                |
| • min.                                                        | -20 °C                                                                                                                                   |         |                |
| • max.                                                        | 60 °C                                                                                                                                    |         |                |
| 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)                                          |         |                |
| 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 LTSP, 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 LTSP, 64-bit, MUI                                                                                |         |                |
| Dimensions                                                    |                                                                                                                                          |         |                |
| Width of the housing front                                    | 416.5 mm                                                                                                                                 |         |                |
| Height of housing front                                       | 298 mm                                                                                                                                   |         |                |
| Mounting cutout, width                                        | 399 mm                                                                                                                                   |         |                |
| Mounting cutout, height                                       | 280 mm                                                                                                                                   |         |                |
| mounting depth                                                | 112 mm                                                                                                                                   |         |                |
| Weights                                                       |                                                                                                                                          |         |                |
| Weight, approx.                                               | 12 kg                                                                                                                                    |         |                |
| Classifications                                               |                                                                                                                                          |         |                |
|                                                               |                                                                                                                                          | Version | Classification |

|        |     |             |
|--------|-----|-------------|
| eClass | 14  | 19-20-01-03 |
| eClass | 12  | 19-20-01-03 |
| eClass | 9.1 | 19-20-01-03 |
| eClass | 9   | 19-20-01-03 |
| eClass | 8   | 27-24-23-01 |
| eClass | 7.1 | 27-24-23-01 |
| eClass | 6   | 27-24-23-01 |
| ETIM   | 10  | EC001414    |
| ETIM   | 9   | EC001414    |
| ETIM   | 8   | EC001414    |
| ETIM   | 7   | EC001414    |

Approvals / Certificates

General Product Approval



[Miscellaneous](#)



[BIS CRS](#)

[China RoHS](#)

General Product Approval

Dangerous goods



[Dangerous goods in-formation](#)

[Test Summary Report UN 38.3](#)

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