

SIMATIC IPC677E (Panel PC), 24" Multitouch (1920x1080); UHD graphic onboard; DP/DVI-D; 3x Gigabit Ethernet (IE/PN); 6x USB 3.1 Gen. 2; 1x serial (COM 1); RAID controller onboard; Watchdog, temperature and fan monitoring; Core i7-8700 (6C/12T, 3.2(4.6) GHz, 12 MB cache, VT-d, AMT); NVRAM; RAID1 2x SSD 2.5" SATA 960 GB In removable frame; 64 GB DDR4-2666(4x16); 110/230 V AC industrial power supply unit With NAMUR; Power supply cable China; Windows 10 Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es) For Core i7; Without extension (software); 2x USB 2.0 (1 slot occupied); 2x PCIe (x16, x4)

| General information                                       |                                                                                                                                                                 |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product type designation                                  | IPC677E                                                                                                                                                         |
| Display                                                   |                                                                                                                                                                 |
| Design of display                                         | 24" TFT multi-touch                                                                                                                                             |
| Screen diagonal                                           | 24 in                                                                                                                                                           |
| Resolution (pixels)                                       |                                                                                                                                                                 |
| • Horizontal image resolution                             | 1 920 pixel                                                                                                                                                     |
| • Vertical image resolution                               | 1 080 pixel                                                                                                                                                     |
| Backlighting                                              |                                                                                                                                                                 |
| • MTBF backlighting (at 25 °C)                            | 30 000 h                                                                                                                                                        |
| Control elements                                          |                                                                                                                                                                 |
| Touch operation                                           |                                                                                                                                                                 |
| • Design as touch screen                                  | Yes                                                                                                                                                             |
| • 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                                                                                                                                                             |
| Mounting in landscape 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                | 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                                                |
| Storage                                                   |                                                                                                                                                                 |
| 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                                    |                                                                                                                                                                 |

|                                                               |                                                                                                             |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Slots</b>                                                  |                                                                                                             |
| • Number of PCI slots                                         | 2; Optional                                                                                                 |
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| <b>Interfaces</b>                                             |                                                                                                             |
| Number of industrial Ethernet interfaces                      | 3; 3x Ethernet (RJ45)                                                                                       |
| serial interface                                              | 1x COM                                                                                                      |
| <b>Video interfaces</b>                                       |                                                                                                             |
| • Graphics interface                                          | 2x DisplayPort; 1x DVI-D                                                                                    |
| <b>Industrial Ethernet</b>                                    |                                                                                                             |
| • Industrial Ethernet interface                               |                                                                                                             |
| — 100 Mbps                                                    | Yes                                                                                                         |
| — 1000 Mbps                                                   | Yes                                                                                                         |
| <b>Interrupts/diagnostics/status information</b>              |                                                                                                             |
| LED status display                                            | 1x power, 3x user                                                                                           |
| <b>Integrated Functions</b>                                   |                                                                                                             |
| <b>Monitoring functions</b>                                   |                                                                                                             |
| • Temperature monitoring                                      | Yes                                                                                                         |
| • Fan                                                         | Yes                                                                                                         |
| • Monitoring function via network                             | Optional                                                                                                    |
| <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                                                                                                         |
| 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                                                                                                         |
| <b>Use in hazardous areas</b>                                 |                                                                                                             |
| • ATEX Zone 2                                                 | Yes; Optional                                                                                               |
| • ATEX Zone 22                                                | Yes; Optional                                                                                               |
| • IECEx Zone 2                                                | Yes; Optional                                                                                               |
| • IECEx Zone 22                                               | Yes; Optional                                                                                               |
| • CCC Ex                                                      | Yes; Optional                                                                                               |
| • cULus Class I Zone 2, Division 2                            | Yes; Optional                                                                                               |
| • cULus Class II Division 2                                   | Yes; Optional                                                                                               |
| <b>Marine approval</b>                                        |                                                                                                             |
| • 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                                                                                          |
| <b>Ambient conditions</b>                                     |                                                                                                             |
| <b>Ambient temperature during operation</b>                   |                                                                                                             |
| • min.                                                        | 5 °C                                                                                                        |
| • max.                                                        | 45 °C                                                                                                       |
| <b>Ambient temperature during storage/transportation</b>      |                                                                                                             |
| • min.                                                        | -20 °C                                                                                                      |
| • max.                                                        | 60 °C                                                                                                       |
| <b>Vibrations</b>                                             |                                                                                                             |
| • 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/s <sup>2</sup> (1 g) |
| <b>Operating systems</b>                                      |                                                                                                             |
| pre-installed operating system                                | Windows 10 Enterprise 2016 LTSC or 2019 LTSC or 2021 LTSC 64 bit, MUI                                       |

|                                                                         |                                                                            |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------|
| without operating system                                                | Yes; Optional                                                              |
| pre-installed operating system                                          |                                                                            |
| <ul style="list-style-type: none"> <li>Windows 10 Enterprise</li> </ul> | Yes; Windows 10 Enterprise 2016 LTSC or 2019 LTSC or 2021 LTSC 64 bit, MUI |

| Dimensions                 |        |
|----------------------------|--------|
| Width of the housing front | 585 mm |
| Height of housing front    | 363 mm |
| Mounting cutout, width     | 569 mm |
| Mounting cutout, height    | 347 mm |
| mounting depth             | 120 mm |

| Weights         |         |
|-----------------|---------|
| Weight, approx. | 12.5 kg |

## Approvals / Certificates

### General Product Approval

[Miscellaneous](#)



| General Product Approval | For use in hazardous locations |
|--------------------------|--------------------------------|
|--------------------------|--------------------------------|



[BIS CRS](#)

[China RoHS](#)



[CCC-Ex](#)

| For use in hazardous locations | Maritime application |
|--------------------------------|----------------------|
|--------------------------------|----------------------|



[Type Examination Certificate](#)



| Maritime application | other | Dangerous goods |
|----------------------|-------|-----------------|
|----------------------|-------|-----------------|



[NK / Nippon Kaiji Kyokai](#)

[CCS \(China Classification Society\)](#)

[KR \(Korean Register of Shipping\)](#)



[Dangerous goods information](#)

| Dangerous goods | Environment |
|-----------------|-------------|
|-----------------|-------------|

[Dangerous goods information](#)

[Test Summary Report UN 38.3](#)

[Environmental Conformations](#)

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