

\*\*\* no longer available \*\*\* SIMATIC IPC 477D, 19" multi-touch display; 4 USB (back); without USB (front); Ethernet (10/100/1000);



| General information                        |                                                                                                                                                       |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product type designation                   | IPC477D                                                                                                                                               |
| Display                                    |                                                                                                                                                       |
| Design of display                          | 19" TFT multi-touch                                                                                                                                   |
| Resolution (pixels)                        |                                                                                                                                                       |
| • Horizontal image resolution              | 1 366 pixel                                                                                                                                           |
| • Vertical image resolution                | 768 pixel                                                                                                                                             |
| Backlighting                               |                                                                                                                                                       |
| • MTBF backlighting (at 25 °C)             | 50 000 h                                                                                                                                              |
| Control elements                           |                                                                                                                                                       |
| Input device                               |                                                                                                                                                       |
| • Mouse, at front                          | No                                                                                                                                                    |
| Keyboard                                   |                                                                                                                                                       |
| • Function keys                            | No                                                                                                                                                    |
| • alphanumeric keyboard                    | No                                                                                                                                                    |
| 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                                                                                                                                                   |
| distributed design                         | No                                                                                                                                                    |
| Mounting in portrait format possible       | Yes                                                                                                                                                   |
| Supply voltage                             |                                                                                                                                                       |
| Type of supply voltage                     | 100/240 V AC (autorange) 50/60 Hz; optional 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                                 |                                                                                                                                                       |
| In full configuration                      | 24 V DC: max. 65 W, PCIe APGB additionally 5 W                                                                                                        |
| Processor                                  |                                                                                                                                                       |
| Processor type                             | Celeron 827E (1C/1T, 1.40 GHz, 1.5 MB Cache); Core i3-3217UE (2C/4T, 1.60 GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache, iAMT) |
| Graphic                                    |                                                                                                                                                       |
| Graphics controller                        | Intel HD graphics controller                                                                                                                          |
| Drives                                     |                                                                                                                                                       |

|                                                                     |                                                                                                                                                                                                              |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Optical drives                                                      | Optional: DVD±R±RW combi drive; on rear, can be operated from side                                                                                                                                           |
| Hard disk                                                           | 2.5" SATA hard disk, at least 320 GB                                                                                                                                                                         |
| SSD                                                                 | Yes; 1x 240 GB SSD, 1x 480 GB SSD                                                                                                                                                                            |
| <b>Storage</b>                                                      |                                                                                                                                                                                                              |
| Type of memory                                                      | DDR3-SDRAM                                                                                                                                                                                                   |
| Main memory                                                         | 2 / 4 / 8 GB; ECC optional                                                                                                                                                                                   |
| Capacity of main memory, max.                                       | 8 Gbyte                                                                                                                                                                                                      |
| <b>Data areas and their retentivity</b>                             |                                                                                                                                                                                                              |
| Retentive data area (incl. timers, counters, flags), max.           | 512 kbyte; 128 KB can be stored in the buffer time; optional                                                                                                                                                 |
| <b>Hardware configuration</b>                                       |                                                                                                                                                                                                              |
| Slots                                                               |                                                                                                                                                                                                              |
| • free slots                                                        | 1x PCIe (slot with card retainer), 1x slot for CFAST card                                                                                                                                                    |
| • Number of PCI slots                                               | 1; Optional                                                                                                                                                                                                  |
| • Number of compact flash slots                                     | 2; CFast                                                                                                                                                                                                     |
| <b>Interfaces</b>                                                   |                                                                                                                                                                                                              |
| PROFIBUS/MPI                                                        | optionally onboard, isolated, max. 12 Mbps, compatible with CP 5611                                                                                                                                          |
| Number of PROFINET interfaces                                       | 3; 3 ports (IRT, with switch, optional)                                                                                                                                                                      |
| USB port                                                            | 4x USB 3.0 high speed/high current                                                                                                                                                                           |
| Connection for keyboard/mouse                                       | USB / USB                                                                                                                                                                                                    |
| serial interface                                                    | COM1: 1x RS 232, COM2 (optional): 1x RS 232                                                                                                                                                                  |
| Video interfaces                                                    |                                                                                                                                                                                                              |
| • Graphics interface                                                | DVI VGA / DVI integrated                                                                                                                                                                                     |
| Industrial Ethernet                                                 |                                                                                                                                                                                                              |
| • Industrial Ethernet interface                                     | Onboard, 2x 10/100 Mbit, RJ45, no plug-in card necessary                                                                                                                                                     |
| <b>Interrupts/diagnostics/status information</b>                    |                                                                                                                                                                                                              |
| LED status display                                                  | Yes                                                                                                                                                                                                          |
| Bus diagnostics                                                     | Yes                                                                                                                                                                                                          |
| <b>Integrated Functions</b>                                         |                                                                                                                                                                                                              |
| Monitoring functions                                                |                                                                                                                                                                                                              |
| • Temperature monitoring                                            | Yes                                                                                                                                                                                                          |
| • Watchdog                                                          | Yes                                                                                                                                                                                                          |
| • Fan                                                               | No                                                                                                                                                                                                           |
| • Monitoring function via network                                   | Optional                                                                                                                                                                                                     |
| <b>EMC</b>                                                          |                                                                                                                                                                                                              |
| Interference immunity against discharge of static electricity       |                                                                                                                                                                                                              |
| • Interference immunity against discharge of static electricity     | ± 6 kV contact discharge at the front in accordance with IEC 61000-4-2; ±4 kV, housing contact discharge at the back in accordance with IEC 61000-4-2; ± 8 kV air discharge in accordance with IEC 61000-4-2 |
| Interference immunity against high-frequency electromagnetic fields |                                                                                                                                                                                                              |
| • Interference immunity against high frequency radiation            | 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                         |
| Interference immunity to cable-borne interference                   |                                                                                                                                                                                                              |
| • Interference immunity on supply cables                            | ±2 kV (to IEC 1000-4-4; 1995; burst); ±1 kV (to IEC 1000-4-5; 1995; surge symm); ±2 kV (to IEC 1000-4-5; 1995; surge asymm)                                                                                  |
| • Interference immunity on signal cables >30m                       | ±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±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                                                                                                                                                    |
| <b>Degree and class of protection</b>                               |                                                                                                                                                                                                              |
| IP (at the front)                                                   | IP65                                                                                                                                                                                                         |
| IP (rear)                                                           | IP20                                                                                                                                                                                                         |
| <b>Standards, approvals, certificates</b>                           |                                                                                                                                                                                                              |

|                                                                                                             |                                                                                                                                                     |         |                |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------|
| CE mark                                                                                                     | Yes; CE marking / EC Declaration of Conformity                                                                                                      |         |                |
| UL approval                                                                                                 | Yes                                                                                                                                                 |         |                |
| <ul style="list-style-type: none"><li>UL 508</li></ul>                                                      | Yes                                                                                                                                                 |         |                |
| cULus                                                                                                       | Yes                                                                                                                                                 |         |                |
| RCM (formerly C-TICK)                                                                                       | Yes                                                                                                                                                 |         |                |
| KC approval                                                                                                 | Yes                                                                                                                                                 |         |                |
| FCC                                                                                                         | Yes                                                                                                                                                 |         |                |
| EMC                                                                                                         | CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A                                                                                                |         |                |
| Use in hazardous areas                                                                                      |                                                                                                                                                     |         |                |
| <ul style="list-style-type: none"><li>ATEX Zone 2</li></ul>                                                 | Yes; Optional                                                                                                                                       |         |                |
| <ul style="list-style-type: none"><li>ATEX Zone 22</li></ul>                                                | Yes; Optional                                                                                                                                       |         |                |
| <ul style="list-style-type: none"><li>IECEx Zone 2</li></ul>                                                | Yes; Optional                                                                                                                                       |         |                |
| <ul style="list-style-type: none"><li>cULus Class I Zone 2, Division 2</li></ul>                            | Yes                                                                                                                                                 |         |                |
| Marine approval                                                                                             |                                                                                                                                                     |         |                |
| <ul style="list-style-type: none"><li>Germanischer Lloyd (GL)</li></ul>                                     | Yes                                                                                                                                                 |         |                |
| <ul style="list-style-type: none"><li>American Bureau of Shipping (ABS)</li></ul>                           | Yes                                                                                                                                                 |         |                |
| <ul style="list-style-type: none"><li>Bureau Veritas (BV)</li></ul>                                         | Yes                                                                                                                                                 |         |                |
| <ul style="list-style-type: none"><li>Det Norske Veritas (DNV)</li></ul>                                    | Yes                                                                                                                                                 |         |                |
| <ul style="list-style-type: none"><li>Korean Register of Shipping (KRS)</li></ul>                           | Yes                                                                                                                                                 |         |                |
| <ul style="list-style-type: none"><li>Lloyds Register of Shipping (LRS)</li></ul>                           | Yes                                                                                                                                                 |         |                |
| <ul style="list-style-type: none"><li>Nippon Kaiji Kyokai (Class NK)</li></ul>                              | Yes                                                                                                                                                 |         |                |
| Ambient conditions                                                                                          |                                                                                                                                                     |         |                |
| Ambient temperature during operation                                                                        |                                                                                                                                                     |         |                |
| <ul style="list-style-type: none"><li>min.</li></ul>                                                        | 0 °C                                                                                                                                                |         |                |
| <ul style="list-style-type: none"><li>max.</li></ul>                                                        | 45 °C                                                                                                                                               |         |                |
| Ambient temperature during storage/transportation                                                           |                                                                                                                                                     |         |                |
| <ul style="list-style-type: none"><li>min.</li></ul>                                                        | -20 °C                                                                                                                                              |         |                |
| <ul style="list-style-type: none"><li>max.</li></ul>                                                        | 60 °C                                                                                                                                               |         |                |
| Relative humidity                                                                                           |                                                                                                                                                     |         |                |
| <ul style="list-style-type: none"><li>Relative humidity</li></ul>                                           | Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% 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> | IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk) |         |                |
| Shock testing                                                                                               |                                                                                                                                                     |         |                |
| <ul style="list-style-type: none"><li>Shock load during operation</li></ul>                                 | IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)                                                                |         |                |
| Operating systems                                                                                           |                                                                                                                                                     |         |                |
| pre-installed operating system                                                                              | Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI                                                                 |         |                |
| without operating system                                                                                    | Yes; Optional                                                                                                                                       |         |                |
| pre-installed operating system                                                                              |                                                                                                                                                     |         |                |
| <ul style="list-style-type: none"><li>Windows 7</li></ul>                                                   | Yes; Ultimate 32 bit or 64 bit                                                                                                                      |         |                |
| Software                                                                                                    |                                                                                                                                                     |         |                |
| SIMATIC Software                                                                                            | Optionally with pre-installed software bundle SIMATIC WinCC RT Advanced / WinAC RTX                                                                 |         |                |
| Dimensions                                                                                                  |                                                                                                                                                     |         |                |
| Width of the housing front                                                                                  | 483 mm                                                                                                                                              |         |                |
| Height of housing front                                                                                     | 337 mm                                                                                                                                              |         |                |
| Mounting cutout, width                                                                                      | 464 mm                                                                                                                                              |         |                |
| Mounting cutout, height                                                                                     | 318 mm                                                                                                                                              |         |                |
| mounting depth                                                                                              | 76 mm                                                                                                                                               |         |                |
| <ul style="list-style-type: none"><li>additional mounting depth (optical drive)</li></ul>                   | 26 mm                                                                                                                                               |         |                |
| Weights                                                                                                     |                                                                                                                                                     |         |                |
| Weight, approx.                                                                                             | 6 400 g                                                                                                                                             |         |                |
| 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    |
| IDEA   | 4   | 6607        |
| UNSPSC | 15  | 43-21-15-06 |

Approvals / Certificates

General Product Approval



[Miscellaneous](#)



[China RoHS](#)



General Product Approval

Maritime application



last modified:

3/9/2026