

\*\*\* no longer available \*\*\* SIMATIC IPC 477D, 15" Touch display; 4 USB (back)+1 USB (front), Ethernet (10/100/1000); Celeron U827E; 2x Gbit Ethernet (IE/PN); 2 GB; 1x RS-232; without PCIE; Windows 7 Ultimate, 32-bit; Replaceable without drive; SSD 80 GB Standard (MLC); Without SIMATIC software; 24 V DC industrial power supply

| General information                        |   |
|--|---|
| Product type designation                   | IPC477D   |
| 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)   |
| Keyboard                                   |   |
| • Function keys                            | No  |
| • alphanumeric keyboard                    | No  |
| Touch operation                            |   |
| • Design as touch screen                   | Yes; analog, resistive  |
| 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. 68 W, PCIe PCB 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   |
| Storage                                    |   |
| Type of memory                             | DDR3-SDRAM  |
| Main memory                                | 2 / 4 / 8 GB; ECC optional  |
| Capacity of main memory, max.              | 8 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; optional  |
| Hardware configuration  |   |
| Slots   |   |
| <ul style="list-style-type: none"> <li>free slots</li> <li>Number of PCI slots</li> <li>Number of compact flash slots</li> </ul>  | 1x PCIe (slot with card retainer), 1x slot for CFAST card<br>1; Optional<br>2; CFast  |
| Interfaces  |   |
| 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   |
| Video interfaces  |   |
| <ul style="list-style-type: none"> <li>Graphics interface</li> </ul>  | DVI VGA / DVI integrated  |
| Industrial Ethernet   |   |
| <ul style="list-style-type: none"> <li>Industrial Ethernet interface</li> </ul>   | Onboard, 2x 10/100 Mbit, RJ45, no plug-in card necessary  |
| Interrupts/diagnostics/status information   |   |
| Bus diagnostics   | Yes   |
| Integrated Functions  |   |
| Monitoring functions  |   |
| <ul style="list-style-type: none"> <li>Temperature monitoring</li> <li>Watchdog</li> <li>Fan</li> <li>Monitoring function via network</li> </ul>  | Yes<br>Yes<br>No<br>Optional  |
| EMC   |   |
| Interference immunity against discharge of static electricity   |   |
| <ul style="list-style-type: none"> <li>Interference immunity against discharge of static electricity</li> </ul>   | ± 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   |   |
| <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  |
| Interference immunity to cable-borne interference   |   |
| <ul style="list-style-type: none"> <li>Interference immunity on supply cables</li> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul> | ±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)<br>±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±2 kV acc. to IEC 61000-4-5, surge; length > 30 m<br>±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   |   |
| <ul style="list-style-type: none"> <li>asymmetric interference</li> <li>symmetric interference</li> </ul>   | ±2 kV acc. to IEC 61000-4-5, surge asymmetric<br>±1 kV acc. to IEC 61000-4-5, surge symmetric   |
| Interference immunity to magnetic fields  |   |
| <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   |
| Emission of conducted and non-conducted interference  |   |
| <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   |
| Degree and class of protection  |   |
| IP (at the front)   | IP65  |
| IP (rear)   | IP20  |
| Standards, approvals, certificates  |   |
| 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  |   |

|   |   |                       |
|---|---|-----------------------|
| • ATEX Zone 2   | Yes; Optional   |                       |
| • ATEX Zone 22  | Yes; Optional   |                       |
| • IECEx Zone 2  | Yes; Optional   |                       |
| • cULus Class I Zone 2, Division 2                            | Yes   |                       |
| <b>Marine approval</b>  |   |                       |
| • Germanischer Lloyd (GL)                                     | Yes   |                       |
| • American Bureau of Shipping (ABS)                           | Yes   |                       |
| • Bureau Veritas (BV)   | Yes   |                       |
| • Det Norske Veritas (DNV)                                    | Yes   |                       |
| • Korean Register of Shipping (KRS)                           | Yes   |                       |
| • Lloyds Register of Shipping (LRS)                           | Yes   |                       |
| • Nippon Kaiji Kyokai (Class NK)                              | Yes   |                       |
| <b>Ambient conditions</b>                                     |   |                       |
| <b>Ambient temperature during operation</b>                   |   |                       |
| • min.  | 0 °C  |                       |
| • max.  | 45 °C   |                       |
| <b>Ambient temperature during storage/transportation</b>      |   |                       |
| • min.  | -20 °C  |                       |
| • max.  | 60 °C   |                       |
| <b>Relative humidity</b>                                      |   |                       |
| • Relative humidity   | Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)  |                       |
| <b>Vibrations</b>   |   |                       |
| • Vibration resistance during operation acc. to IEC 60068-2-6 | IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s <sup>2</sup> (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s <sup>2</sup> (hard disk) |                       |
| <b>Shock testing</b>  |   |                       |
| • Shock load during operation                                 | IEC 60068-2-27; 150 m/s <sup>2</sup> , 11 ms (without hard disk); 50 m/s <sup>2</sup> , 30 ms (with hard disk)  |                       |
| <b>Operating systems</b>                                      |   |                       |
| 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   |                       |
| <b>pre-installed operating system</b>                         |   |                       |
| • Windows 7   | Yes; Ultimate 32 bit or 64 bit  |                       |
| <b>Software</b>   |   |                       |
| SIMATIC Software  | Optionally with pre-installed software bundle SIMATIC WinCC RT Advanced / WinAC RTX   |                       |
| <b>Dimensions</b>   |   |                       |
| Width of the housing front                                    | 415 mm  |                       |
| Height of housing front                                       | 310 mm  |                       |
| Mounting cutout, width  | 396 mm  |                       |
| Mounting cutout, height                                       | 291 mm  |                       |
| mounting depth  | 76 mm   |                       |
| • additional mounting depth (optical drive)                   | 26 mm   |                       |
| <b>Weights</b>  |   |                       |
| Weight, approx.   | 4.9 kg  |                       |
| <b>Classifications</b>  |   |                       |
|   | <b>Version</b>  | <b>Classification</b> |
| 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              |

Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)

[Miscellaneous](#)



General Product Approval

Maritime application

[China RoHS](#)



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