

\*\*\* no longer available \*\*\* SIMATIC IPC 477D, 19" touch display; 4 USB (back)+1 USB (front), Ethernet (10/100/1000); Core i7-3517UE; 2x Gbit Ethernet (IE/PN); 8 GB with NVRAM; 1x RS-232; without PCIE; WIN Embedded Standard 7 SP1, English, 64-bit; Replaceable without drive; SSD 240 GB Standard (MLC); Without SIMATIC software; 24 V DC industrial power supply

| General information                        |                                                                                                                                                       |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product type designation                   | IPC477D                                                                                                                                               |
| Display                                    |                                                                                                                                                       |
| Design of display                          | 19" TFT touch                                                                                                                                         |
| Screen diagonal                            | 19 in                                                                                                                                                 |
| 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                          | Front USB 2.0 (500mA)                                                                                                                                 |
| Keyboard fonts                             |                                                                                                                                                       |
| • 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. 65 W, PCle 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                                                                                                                     |
| Memory                                     |                                                                                                                                                       |
| Type of memory                             | DDR3-SDRAM                                                                                                                                            |
| Main memory                                | 2 / 4 / 8 GB; ECC optional                                                                                                                            |

|                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                           |
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| 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>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                           |
| <b>Slots</b>                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                           |
| <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                                                                                                                                                                                                                                                      |
| <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                                                                                                                                                                                                                                                                                               |
| <b>Video interfaces</b>                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>Graphics interface</li> </ul>                                                                                                                                      | DVI VGA / DVI integrated                                                                                                                                                                                                                                                                                                                  |
| <b>Industrial Ethernet</b>                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>Industrial Ethernet interface</li> </ul>                                                                                                                           | Onboard, 2x 10/100 Mbit, RJ45, no plug-in card necessary                                                                                                                                                                                                                                                                                  |
| <b>Interrupts/diagnostics/status information</b>                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                           |
| Bus diagnostics                                                                                                                                                                                           | Yes                                                                                                                                                                                                                                                                                                                                       |
| <b>Integrated Functions</b>                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                           |
| <b>Monitoring functions</b>                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>Temperature monitoring</li> <li>Watchdog</li> <li>Status LEDs</li> <li>Fan</li> <li>Monitoring function via network</li> </ul>                                     | Yes<br>Yes<br>Yes<br>No<br>Optional                                                                                                                                                                                                                                                                                                       |
| <b>EMC</b>                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                           |
| <b>Interference immunity against discharge of static electricity</b>                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>Interference immunity against discharge of static electricity</li> </ul>                                                                                           | ± 6 kV contact discharge 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                                                                                                                              |
| <b>Interference immunity against high-frequency electromagnetic fields</b>                                                                                                                                |                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>Interference immunity against high frequency radiation</li> </ul>                                                                                                  | 10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6                                                                                                                                                      |
| <b>Interference immunity to cable-borne interference</b>                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>Interference immunity on supply cables</li> <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 |
| <b>Interference immunity against voltage surge</b>                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                           |
| <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                                                                                                                                                                                                                                             |
| <b>Interference immunity to magnetic fields</b>                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul>                                                                                                       | 100 A/m; to IEC 61000-4-8                                                                                                                                                                                                                                                                                                                 |
| <b>Emission of conducted and non-conducted interference</b>                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>Interference emission via line/AC current cables</li> </ul>                                                                                                        | EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A                                                                                                                                                                                                                                                                                 |
| <b>Degree and class of protection</b>                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                           |
| IP (at the front)                                                                                                                                                                                         | IP65                                                                                                                                                                                                                                                                                                                                      |
| IP (rear)                                                                                                                                                                                                 | IP20                                                                                                                                                                                                                                                                                                                                      |
| <b>Standards, approvals, certificates</b>                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                           |
| CE mark                                                                                                                                                                                                   | Yes; 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                                                                                                                                                                         |
| Marine approval                                               |                                                                                                                                                                             |
| • 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                                                                                                                                                                         |
| Ambient conditions                                            |                                                                                                                                                                             |
| Ambient temperature during operation                          |                                                                                                                                                                             |
| • Ambient temperature during operation                        | 0 °C to +45 °C with full configuration                                                                                                                                      |
| Ambient temperature during storage/transportation             |                                                                                                                                                                             |
| • min.                                                        | -20 °C                                                                                                                                                                      |
| • max.                                                        | 60 °C                                                                                                                                                                       |
| Relative humidity                                             |                                                                                                                                                                             |
| • Relative humidity                                           | Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)                                                                                    |
| Vibrations                                                    |                                                                                                                                                                             |
| • 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) |
| Shock testing                                                 |                                                                                                                                                                             |
| • 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)                                                              |
| 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                                |                                                                                                                                                                             |
| • Windows 7                                                   | 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                                       | 310 mm                                                                                                                                                                      |
| Mounting cutout, width                                        | 465 mm                                                                                                                                                                      |
| Mounting cutout, height                                       | 319 mm                                                                                                                                                                      |
| Overall depth                                                 | 76 mm                                                                                                                                                                       |
| • additional mounting depth (optical drive)                   | 26 mm                                                                                                                                                                       |
| Weights                                                       |                                                                                                                                                                             |
| Weight, approx.                                               | 6 400 g                                                                                                                                                                     |
| last modified:                                                | 10/8/2021                                                                                |