

SIMATIC IPC 477D, 15" Touch display; 4 USB (back)+1 USB (front), Ethernet (10/100/1000) Core i7-3517UE; 2x Gbit Ethernet (IE/PN); 8 GB; 1x RS-232; without PCIE; Windows 7 Ultimate 64-bit, Replaceable without drive; 320 GB HDD SATA; Without SIMATIC software; 24 V DC industrial power supply

General information

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| Product type designation | IPC477D |
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Display

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| Design of display | 15" TFT touch |
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| Screen diagonal | 15 in |
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Resolution (pixels)

- | | |
|-------------------------------|-------------|
| • Horizontal image resolution | 1 280 Pixel |
| • Vertical image resolution | 800 Pixel |

Backlighting

- | | |
|--------------------------------|----------|
| • MTBF backlighting (at 25 °C) | 80 000 h |
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Control elements

Input device

- | | |
|-------------------|-----------------------|
| • Mouse, at front | Front USB 2.0 (500mA) |
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Keyboard fonts

- | | |
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| • Function keys | No |
| • alphanumeric keyboard | No |

Touch operation

- | | |
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| • Design as touch screen | Yes; analog, resistive |
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Installation type/mounting

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| Mounting | For horizontal and vertical mounting |
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| Design | Panel PC, built-in unit |
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| central design | Yes |
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| distributed design | No |
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| Mounting in portrait format possible | Yes |
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Supply voltage

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| Type of supply voltage | 100/240 V AC (autorange) 50/60 Hz; optional 24 V DC |
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Line frequency

- | | |
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| • Rated value 50 Hz | Yes |
| • Rated value 60 Hz | Yes |

Mains buffering

- | | |
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| • Mains/voltage failure stored energy time | 10 ms |
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| Power loss | |
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| 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 |
| Memory | |
| 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"> • free slots • Number of PCI slots • Number of compact flash slots | 1x PCIe (slot with card retainer), 1x slot for CFAST card 1; Optional 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 |
| serial interface | COM1: 1x RS 232, COM2 (optional): 1x RS 232 |
| Video interfaces | |
| <ul style="list-style-type: none"> • Graphics interface | DVI VGA / DVI integrated |
| Industrial Ethernet | |
| <ul style="list-style-type: none"> • Industrial Ethernet interface | Onboard, 2x 10/100 Mbit, RJ45, no plug-in card necessary |
| Interrupts/diagnostics/status information | |
| Bus diagnostics | Yes |
| Integrated Functions | |
| Monitoring functions | |

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| • Temperature monitoring | Yes |
| • Watchdog | Yes |
| • Status LEDs | Yes |
| • Fan | No |
| • Monitoring function via network | Optional |

EMC

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| 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 |

Degree and class of protection

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| IP (at the front) | IP65 |
| IP (rear) | IP20 |

Standards, approvals, certificates

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| CE mark | Yes; CE marking / EC Declaration of Conformity |
| UL approval | Yes |
| • UL 508 | 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 ² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s ² (hard disk) |
| Shock testing | |
| • Shock load during operation | IEC 60068-2-27; 150 m/s ² , 11 ms (without hard disk); 50 m/s ² , 30 ms (with hard disk) |
| Operating systems | |
| Operating system | Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI |
| pre-installed operating system | Yes |
| 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 | |
| Overall depth | |
| • additional mounting depth (optical drive) | 26 mm |

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| Operator control unit (W x H) in mm | |
| <ul style="list-style-type: none"> • Operator panel width • Operator panel height | <p>415 mm</p> <p>310 mm</p> |
| Mounting dimensions in centralized configuration (W x H x D) in mm | |
| <ul style="list-style-type: none"> • Width • Height • Depth | <p>395 mm</p> <p>290 mm</p> <p>76 mm</p> |
| Mounting cutout/device depth (W x H x T) | 395 mm x 290 mm / 82 mm device depth |

Weights

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| Panel PC in central design, approx. | 4.9 kg |
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last modified: 09/13/2019