


*** no longer available *** SIMATIC IPC 477D, 22" touch display; 4 USB (back)+1 USB (front), Ethernet (10/100/1000); Celeron U827E; 2x Gbit Ethernet (IE/PN); 2 GB; 1x RS232 and 1x PCIE; Windows 7 Ultimate, 32-bit; Replaceable without drive; 320 GB HDD SATA; DVD; Without SIMATIC software; AC 110/230V industrial power supply unit with NAMUR; Power supply cable for UK

| Display | |
|---|---|
| Design of display | 22" TFT touch |
| Resolution (pixels) | |
| • Horizontal image resolution | 1 920 pixel |
| • Vertical image resolution | 1 080 pixel |
| Backlighting | |
| • MTBF backlighting (at 25 °C) | 30 000 h |
| Control elements | |
| 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. 74 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 |
| 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 | |
| <ul style="list-style-type: none"> • Temperature monitoring • Watchdog • Status LEDs • Fan • Monitoring function via network | Yes Yes Yes No Optional |
| EMC | |
| Interference immunity against discharge of static electricity | |
| <ul style="list-style-type: none"> • 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 | |
| <ul style="list-style-type: none"> • 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 | |
| <ul style="list-style-type: none"> • Interference immunity on supply cables • Interference immunity on signal cables >30m • Interference immunity on signal cables < 30m | ±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) ±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±2 kV acc. to IEC 61000-4-5, surge; length > 30 m ±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"> • asymmetric interference • symmetric interference | ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±1 kV acc. to IEC 61000-4-5, surge symmetric |
| Interference immunity to magnetic fields | |
| <ul style="list-style-type: none"> • Interference immunity to magnetic fields at 50 Hz | 100 A/m; to IEC 61000-4-8 |
| Emission of conducted and non-conducted interference | |
| <ul style="list-style-type: none"> • 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 | |
| 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"> • 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 | |
| <ul style="list-style-type: none"> • ATEX Zone 2 | Yes; Optional |

| | |
|---|---|
| <ul style="list-style-type: none"> • ATEX Zone 22 • IECEx Zone 2 • cULus Class I Zone 2, Division 2 | Yes; Optional Yes; Optional Yes |
| Marine approval | |
| <ul style="list-style-type: none"> • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Korean Register of Shipping (KRS) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (Class NK) | Yes Yes Yes Yes Yes Yes Yes |
| Ambient conditions | |
| Ambient temperature during operation | |
| <ul style="list-style-type: none"> • Ambient temperature during operation | 0 °C to +45 °C with full configuration |
| Ambient temperature during storage/transportation | |
| <ul style="list-style-type: none"> • min. • max. | -20 °C 60 °C |
| Relative humidity | |
| <ul style="list-style-type: none"> • Relative humidity | 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"> • 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 | |
| <ul style="list-style-type: none"> • 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 | |
| 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"> • 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 | 560 mm |
| Height of housing front | 380 mm |
| Mounting cutout, width | 542 mm |
| Mounting cutout, height | 362 mm |
| Overall depth | 76 mm |
| <ul style="list-style-type: none"> • additional mounting depth (optical drive) | 26 mm |
| Weights | |
| Weight, approx. | 7 kg |
| last modified: | 2/16/2022  |