


SIMATIC IPC477E PRO fully protected IP65; 22" multi-touch (1920 x 1080); for supporting foot (expandable, flange at bottom), 4 USB (back); without USB (front); Ethernet (10/100/1000 Core i5-6442EQ; 3x Gbit Ethernet (IE/PN); 8 GB; without RS 232/RS485; without PCIe; Windows 10 IoT Enterprise 2016 LTSP (64-bit) for Celeron/I3/I5; Without replaceable mass storage; 256 GB Eco SSD; Without SIMATIC software 24 V DC industrial power supply

| General information | |
|---|--|
| Product type designation | IPC477E PRO |
| Display | |
| Design of display | TFT widescreen display, LED backlighting |
| Screen diagonal | 22 in |
| Display width | 497.6 mm |
| Display height | 292.2 mm |
| Resolution (pixels) | |
| • Horizontal image resolution | 1 920 pixel |
| • Vertical image resolution | 1 080 pixel |
| Control elements | |
| Touch operation | |
| • Design as touch screen | Yes; Projective-capacitive |
| Installation type/mounting | |
| Mounting | For mounting on stand or supporting bracket |
| Design | Panel PC on pedestal or supporting arm |
| Support arm mounting | No |
| Stand mounting | Yes; Prepared for pedestal and extension components |
| Mounting in portrait format possible | No |
| maximum permissible installation angle +/- | ±45 ° |
| Supply voltage | |
| Type of supply voltage | 24 V DC |
| Mains buffering | |
| • Mains/voltage failure stored energy time | 20 ms |
| Processor | |
| Processor type | Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT) |
| Chipset | Intel C236 / Intel H110 |
| Graphic | |
| Graphics controller | Intel HD graphics controller |
| Drives | |
| Optical drives | possible as external drive via USB |
| SSD | Yes; ≥ 128 GB optional |
| Memory | |
| Type of memory | DDR4-2400 SO-DIMM |
| Main memory | 4 / 8 / 16 GB, ECC optional |
| Capacity of main memory, max. | 16 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 |
| Hardware configuration | |
| Slots | |
| • Number of PCI slots | 0; Different to the built-in unit |
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| • Number of compact flash slots | 1; CFAST |
| Interfaces | |
| Number of industrial Ethernet interfaces | 3; 3x Ethernet (RJ45) |
| USB port | 4x USB 3.0 onboard (rear) |

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| Connection for keyboard/mouse | USB / USB |
| serial interface | Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS |
| Video interfaces | |
| • Graphics interface | 2x DisplayPort |
| Industrial Ethernet | |
| • Industrial Ethernet interface | 3x Ethernet (RJ45) |
| — 100 Mbps | Yes |
| — 1000 Mbps | Yes |
| Interrupts/diagnostics/status information | |
| Bus diagnostics | Yes |
| Integrated Functions | |
| Monitoring functions | |
| • Temperature monitoring | Yes |
| • Watchdog | Yes |
| • Fan | No |
| • Monitoring function via network | Optional |
| EMC | |
| Interference immunity against discharge of static electricity | |
| • Interference immunity against discharge of static electricity | ±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2 |
| Interference immunity against high-frequency electromagnetic fields | |
| • Interference immunity against high frequency radiation | 10 V/m, 80 ... 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 ... 2.7 GHz; 10 V, 10 kHz ... 80 MHz acc. to IEC 61000-4-6 |
| Interference immunity to cable-borne interference | |
| • Interference immunity on supply cables | ±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric |
| • Interference immunity on signal cables >30m | ±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 | |
| IP65 (all-round) | Yes; IP65 fully enclosed |
| IP (at the front) | IP65 |
| IP (rear) | IP65 |
| Standards, approvals, certificates | |
| CE mark | Yes |
| CSA approval | Yes |
| UL approval | Yes |
| • UL 508 | Yes |
| cULus | Yes |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| EAC (formerly Gost-R) | Yes |
| EMC | CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A |
| Use in hazardous areas | |
| • ATEX Zone 2 | Yes; Optional |
| • IECEx Zone 2 | Yes; Optional |
| • cULus Class I Zone 2, Division 2 | Yes; Optional |
| Marine approval | |
| • Germanischer Lloyd (GL) | Yes |
| • American Bureau of Shipping (ABS) | Yes |
| • Det Norske Veritas (DNV) | Yes |
| • Korean Register of Shipping (KRS) | Yes |
| • Lloyds Register of Shipping (LRS) | Yes |
| Ambient conditions | |
| Ambient temperature during operation | |

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|---|---|
| • min. | 0 °C |
| • max. | 45 °C |
| 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: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) |
| Vibrations | |
| • Vibration resistance during operation acc. to IEC 60068-2-6 | tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s ² (1 g) |
| Shock testing | |
| • Shock load during operation | Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s ² (5 g), 30 ms, 100 shocks per axis |
| Operating systems | |
| pre-installed operating system | Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10 |
| without operating system | Yes; Optional |
| pre-installed operating system | |
| • Windows 7 | Yes; Ultimate 64 bit |
| • Windows 10 Enterprise | Yes; Windows 10 Enterprise 2016 LTSC, 64 bit, MUI |
| Dimensions | |
| Width of the housing front | 527 mm |
| Height of housing front | 329 mm; Without basic adapter |
| Weights | |
| Weight, approx. | 9.3 kg |
| last modified: | 6/25/2021  |