


SIMATIC IPC477E PRO fully protected IP65; 19" multi-touch (1366 x 768); 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 with NVRAM; 2x RS 232/RS 485; without PCIe; Windows 10 IoT Enterprise 2016 LTSC (64-bit) for Celeron/I3/I5; Without replaceable mass storage; 240 GB solid-state drive SATA 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   | 19 in  |
| Display width   | 409.8 mm   |
| Display height  | 230.4 mm   |
| Resolution (pixels)                                       |  |
| • Horizontal image resolution                             | 1 366 pixel  |
| • Vertical image resolution                               | 768 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  |
| • Number of PCI slots                                     | 0; Different to the built-in unit  |
| • 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)  |

|  |   |
|--|---|
| Connection for keyboard/mouse  | USB / USB   |
| serial interface   | Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS   |
| <b>Video interfaces</b>  |   |
| • Graphics interface   | 2x DisplayPort  |
| <b>Industrial Ethernet</b>   |   |
| • Industrial Ethernet interface  | 3x Ethernet (RJ45)  |
| — 100 Mbps   | Yes   |
| — 1000 Mbps  | Yes   |
| <b>Interrupts/diagnostics/status information</b>                           |   |
| Bus diagnostics  | Yes   |
| <b>Integrated Functions</b>  |   |
| <b>Monitoring functions</b>  |   |
| • Temperature monitoring   | Yes   |
| • Watchdog   | Yes   |
| • Fan  | No  |
| • Monitoring function via network  | Optional  |
| <b>EMC</b>   |   |
| <b>Interference immunity against discharge of static electricity</b>       |   |
| • 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  |
| <b>Interference immunity against high-frequency electromagnetic fields</b> |   |
| • 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    |
| <b>Interference immunity to cable-borne interference</b>                   |   |
| • 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                              |
| <b>Interference immunity against voltage surge</b>                         |   |
| • asymmetric interference  | ±2 kV acc. to IEC 61000-4-5, surge asymmetric   |
| • symmetric interference   | ±1 kV acc. to IEC 61000-4-5, surge symmetric  |
| <b>Interference immunity to magnetic fields</b>                            |   |
| • Interference immunity to magnetic fields at 50 Hz                        | 100 A/m; to IEC 61000-4-8   |
| <b>Emission of conducted and non-conducted interference</b>                |   |
| • Interference emission via line/AC current cables                         | EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A   |
| <b>Degree and class of protection</b>                                      |   |
| IP65 (all-round)   | Yes; IP65 fully enclosed  |
| IP (at the front)  | IP65  |
| IP (rear)  | IP65  |
| <b>Standards, approvals, certificates</b>                                  |   |
| 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   |
| <b>Use in hazardous areas</b>  |   |
| • ATEX Zone 2  | Yes; Optional   |
| • IECEx Zone 2   | Yes; Optional   |
| • cULus Class I Zone 2, Division 2   | Yes; Optional   |
| <b>Marine approval</b>   |   |
| • 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   |
| <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: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) |
| <b>Vibrations</b>   |   |
| • 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 <sup>2</sup> (1 g)  |
| <b>Shock testing</b>  |   |
| • Shock load during operation                                 | Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s <sup>2</sup> (5 g), 30 ms, 100 shocks per axis  |
| <b>Operating systems</b>                                      |   |
| 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   |
| <b>pre-installed operating system</b>                         |   |
| • Windows 7   | Yes; Ultimate 64 bit  |
| • Windows 10 Enterprise                                       | Yes; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI   |
| <b>Accessories</b>  |   |
| Accessory components  | Basic adapter for mounting (MLFB: 6AV7674-1KA00-0AA0)   |
| <b>Dimensions</b>   |   |
| Width of the housing front                                    | 462 mm  |
| Height of housing front                                       | 292 mm; Without basic adapter   |
| <b>Weights</b>  |   |
| Weight, approx.   | 8.2 kg  |
| <b>last modified:</b>   | 6/25/2021    |