

SIMATIC IPC477E PRO fully enclosed IP65; 15" Multitouch (1366 X 768); suitable for pedestal/ extension components (flange at bottom); 4USB (back); w/o USB (front); Ethernet (10/100/1000);

| General information                        |                                                                                                                                                                                                            |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product type designation                   | IPC477E PRO                                                                                                                                                                                                |
| Display                                    |                                                                                                                                                                                                            |
| Design of display                          | TFT widescreen display, LED backlighting                                                                                                                                                                   |
| Screen diagonal                            | 15 in                                                                                                                                                                                                      |
| Display width                              | 344.2 mm                                                                                                                                                                                                   |
| Display height                             | 193.5 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                                                                                                                                                                                                    |
| Line frequency                             |                                                                                                                                                                                                            |
| • Rated value 50 Hz                        | Yes                                                                                                                                                                                                        |
| • Rated value 60 Hz                        | Yes                                                                                                                                                                                                        |
| 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) |
| Graphic                                    |                                                                                                                                                                                                            |
| Graphics controller                        | Intel HD graphics controller                                                                                                                                                                               |
| Drives                                     |                                                                                                                                                                                                            |

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| Optical drives                                                             | possible as external drive via USB                                                                                           |
| SSD                                                                        | Yes; 1x 128 GB, 1x 240 GB SSD, 1x 480 GB SSD                                                                                 |
| <b>Memory</b>                                                              |                                                                                                                              |
| Type of memory                                                             | DDR4 SO-DIMM                                                                                                                 |
| Main memory                                                                | 4 GB to 16 GB, ECC optional                                                                                                  |
| Capacity of main memory, max.                                              | 16 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                                                                           |
| <b>Hardware configuration</b>                                              |                                                                                                                              |
| <b>Slots</b>                                                               |                                                                                                                              |
| • 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                                                                                                                     |
| <b>Interfaces</b>                                                          |                                                                                                                              |
| 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 |

|                                                             |                                                                                                                                 |
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| <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; CE marking / EC Declaration of Conformity                                                                                  |
| UL approval                                                 | Yes                                                                                                                             |
| • UL 508                                                    | Yes                                                                                                                             |
| cULus                                                       | Yes                                                                                                                             |
| RCM (formerly C-TICK)                                       | Yes                                                                                                                             |
| KC approval                                                 | Yes                                                                                                                             |
| EAC (formerly Gost-R)                                       | No                                                                                                                              |
| EMC                                                         | CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A                                                                                 |
| <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>                 |                                                                                                                                 |
| • Ambient temperature during operation                      | 5 to +45°C                                                                                                                      |
| <b>Ambient temperature during storage/transportation</b>    |                                                                                                                                 |
| • min.                                                      | -20 °C                                                                                                                          |
| • max.                                                      | 60 °C                                                                                                                           |
| <b>Relative humidity</b>                                    |                                                                                                                                 |

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| • 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>                                      |                                                                                                                                                                         |
| Operating system                                              | Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10                                                                 |
| pre-installed operating system                                | Yes                                                                                                                                                                     |
| without operating system                                      | Yes; Optional                                                                                                                                                           |
| <b>pre-installed operating system</b>                         |                                                                                                                                                                         |
| • Windows 7                                                   | Yes; Ultimate 64 bit                                                                                                                                                    |
| • Windows 10 Enterprise                                       | Yes; Windows 10 Enterprise LTSC 2016, 64-bit, MUI                                                                                                                       |
| <b>Dimensions</b>                                             |                                                                                                                                                                         |
| Width of the housing front                                    | 396 mm                                                                                                                                                                  |
| Height of housing front                                       | 255 mm; Without basic adapter                                                                                                                                           |
| <b>Weights</b>                                                |                                                                                                                                                                         |
| Panel PC in central design, approx.                           | 6.8 kg                                                                                                                                                                  |
| <b>Other</b>                                                  |                                                                                                                                                                         |
| Warranty period                                               | 36 mo; Warranty period                                                                                                                                                  |
| <b>last modified:</b>                                         | 10/16/2018                                                                                                                                                              |