

SIMATIC IPC477E PRO fully enclosed IP65; 19" Multitouch (1366 x 768); suitable for support arm and extension components (round tube); 4USB (back); w/o USB (front); Ethernet (10/100/1000); Core i3-6102E; 3x Gbit Ethernet (IE/PN); 4 GB; without RS 232/RS485; without PCIe; Windows 10 IoT Enterprise 2016 LTSB (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

|  |   |
|--|---|
| Design                                     | Panel PC on pedestal or supporting arm  |
| Support arm mounting                       | Yes; Suitable for support arm and extension components (please refer to manual) |
| Stand mounting                             | No  |
| 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 Gbyte, 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   |   |
| <ul style="list-style-type: none"> <li>• Number of PCI slots</li> </ul>             | 0; Different to the built-in unit                             |
| <ul style="list-style-type: none"> <li>• Number of PCI slots</li> </ul>             | 0; Different to the built-in unit                             |
| <ul style="list-style-type: none"> <li>• Number of compact flash slots</li> </ul>   | 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 |
| Video interfaces  |   |
| <ul style="list-style-type: none"> <li>• Graphics interface</li> </ul>              | 2x DisplayPort  |
| Industrial Ethernet   |   |
| <ul style="list-style-type: none"> <li>• Industrial Ethernet interface</li> </ul>   | 3x Ethernet (RJ45)  |
| <ul style="list-style-type: none"> <li>— 100 Mbps</li> </ul>                        | Yes   |
| <ul style="list-style-type: none"> <li>— 1000 Mbps</li> </ul>                       | Yes   |
| Interrupts/diagnostics/status information   |   |
| Bus diagnostics   | Yes   |
| Integrated Functions  |   |
| Monitoring functions  |   |
| <ul style="list-style-type: none"> <li>• Temperature monitoring</li> </ul>          | Yes   |
| <ul style="list-style-type: none"> <li>• Watchdog</li> </ul>                        | Yes   |
| <ul style="list-style-type: none"> <li>• Fan</li> </ul>                             | No  |
| <ul style="list-style-type: none"> <li>• Monitoring function via network</li> </ul> | 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  |
| <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

## Ambient conditions

### Ambient temperature during operation

- Ambient temperature during operation 0 °C to 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)

### Shock testing

- 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

## 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

## Accessories

Accessory components 6AV7674-1KF00-0AA0 - Flange mount for installation (refer to manual)

## Dimensions

Width of the housing front 462 mm

Height of housing front 292 mm

## Weights

Weight, approx. 8.8 kg

**last modified:** 05/16/2020