

SIMATIC IPC 477E 15" touch (1280 x 800); with front USB; 4 USB (back), Ethernet (10/100/1000); Core i5-6442EQ; 3x Gbit Ethernet (IE/PN); 8 GB; without RS 232/RS485; 1x PCIe (x4); Windows7 Ultimate SP1, 64-bit, MUI (de, en, es, fr, it); Without replaceable mass storage; 320 GB HDD SATA; Without SIMATIC software; 24 V DC industrial power supply

| General information                                       |                                                                                                                                                                                                            |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product type designation                                  | IPC477E                                                                                                                                                                                                    |
| Display                                                   |                                                                                                                                                                                                            |
| Design of display                                         | 15" TFT touch                                                                                                                                                                                              |
| Screen diagonal                                           | 15.6 in                                                                                                                                                                                                    |
| Resolution (pixels)                                       |                                                                                                                                                                                                            |
| • Horizontal image resolution                             | 1 280 pixel                                                                                                                                                                                                |
| • Vertical image resolution                               | 800 pixel                                                                                                                                                                                                  |
| Backlighting                                              |                                                                                                                                                                                                            |
| • MTBF backlighting (at 25 °C)                            | 50 000 h                                                                                                                                                                                                   |
| Control elements                                          |                                                                                                                                                                                                            |
| Keyboard                                                  |                                                                                                                                                                                                            |
| • 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                                                                                                                                                        |
| Rated value (DC)                                          | 24 V; PELV / SELV floating                                                                                                                                                                                 |
| Line frequency                                            |                                                                                                                                                                                                            |
| • Rated value 50 Hz                                       | Yes                                                                                                                                                                                                        |
| • Rated value 60 Hz                                       | Yes                                                                                                                                                                                                        |
| 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                                                    |                                                                                                                                                                                                            |
| Hard disk                                                 | 2.5" SATA ≥ 320 GB                                                                                                                                                                                         |
| SSD                                                       | Yes; 128 / 240 / 480 GB                                                                                                                                                                                    |
| Storage                                                   |                                                                                                                                                                                                            |
| 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; optional                                                                                                                                               |
| Hardware configuration                                    |                                                                                                                                                                                                            |

|                                                   |                                                               |
|---------------------------------------------------|---------------------------------------------------------------|
| Slots                                             |                                                               |
| • Number of PCI slots                             | 1; Optional                                                   |
| • Number of compact flash slots                   | 1; CFast                                                      |
| Interfaces                                        |                                                               |
| Number of industrial Ethernet interfaces          | 3; 3x Ethernet (RJ45)                                         |
| serial interface                                  | Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS |
| Video interfaces                                  |                                                               |
| • Graphics interface                              | 2x DisplayPort                                                |
| Industrial Ethernet                               |                                                               |
| • Industrial Ethernet interface                   |                                                               |
| — 100 Mbps                                        | Yes                                                           |
| — 1000 Mbps                                       | Yes                                                           |
| Interrupts/diagnostics/status information         |                                                               |
| Bus diagnostics                                   | Yes                                                           |
| Integrated Functions                              |                                                               |
| Monitoring functions                              |                                                               |
| • Temperature monitoring                          | Yes                                                           |
| • Fan                                             | No                                                            |
| • Monitoring function via network                 | Optional                                                      |
| Degree and class of protection                    |                                                               |
| IP (at the front)                                 | IP65                                                          |
| IP (rear)                                         | IP20                                                          |
| 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                                                           |
| FCC                                               | Yes                                                           |
| Use in hazardous areas                            |                                                               |
| • ATEX Zone 2                                     | Yes; for inscription on device rating plate                   |
| • ATEX Zone 22                                    | Yes; for inscription on device rating plate                   |
| • IECEx Zone 2                                    | Yes; for inscription on device rating plate                   |
| • IECEx Zone 22                                   | Yes; for inscription on device rating plate                   |
| • CCC Ex                                          | Yes; for inscription on device rating plate                   |
| • cULus Class I Zone 1                            | No                                                            |
| • cULus Class I Zone 2, Division 2                | Yes; for inscription on device rating plate                   |
| • cULus Class II Division 2                       | Yes; for inscription on device rating plate                   |
| • FM Class I Division 2                           | No                                                            |
| • FM Class II Division 2                          | No                                                            |
| Marine approval                                   |                                                               |
| • Germanischer Lloyd (GL)                         | Yes                                                           |
| • American Bureau of Shipping (ABS)               | Yes                                                           |
| • Bureau Veritas (BV)                             | Yes                                                           |
| • Det Norske Veritas (DNV)                        | Yes                                                           |
| • Korean Register of Shipping (KRS)               | Yes                                                           |
| • Lloyds Register of Shipping (LRS)               | Yes                                                           |
| • Nippon Kaiji Kyokai (Class NK)                  | Yes                                                           |
| Ambient conditions                                |                                                               |
| Ambient temperature during operation              |                                                               |
| • min.                                            | 0 °C                                                          |
| • max.                                            | 45 °C                                                         |
| Ambient temperature during storage/transportation |                                                               |
| • min.                                            | -20 °C                                                        |
| • max.                                            | 60 °C                                                         |
| Vibrations                                        |                                                               |

- 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<sup>2</sup> (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s<sup>2</sup> (hard disk)

#### 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 | 415 mm |
| Height of housing front    | 310 mm |
| Mounting cutout, width     | 396 mm |
| Mounting cutout, height    | 291 mm |
| mounting depth             | 76 mm  |

#### Weights

|                 |        |
|-----------------|--------|
| Weight, approx. | 6.8 kg |
|-----------------|--------|

#### Approvals / Certificates

##### General Product Approval



[Miscellaneous](#)



[BIS CRS](#)

##### General Product Approval Maritime application Dangerous goods

[China RoHS](#)



[Test Summary Report UN 38.3](#)

##### Dangerous goods

[Dangerous goods information](#)

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