

SIMATIC IPC 477E 19" Touch (1366 x 768); with front USB; 4 USB (back), Ethernet (10/100/1000); Core i5-6442EQ; 3x Gbit Ethernet (IE/PN); 16 GB and NVRAM; 2x RS232/RS485; 1x PCIe (x4); Win Embedded Standard 7 P SP1, MUI, 64-bit, multi-touch; 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  |
| Display   |  |
| Design of display   | 19" TFT touch  |
| Screen diagonal   | 18.5 in  |
| Resolution (pixels)                                       |  |
| • Horizontal image resolution                             | 1 366 pixel  |
| • Vertical image resolution                               | 768 pixel  |
| Backlighting  |  |
| • MTBF backlighting (at 25 °C)                            | 50 000 h   |
| Control elements  |  |
| Keyboard fonts  |  |
| • 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  |
| 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; optional   |
| Hardware configuration                                    |  |

|  |  |
|--|--|
| <b>Slots</b>   |  |
| • Number of PCI slots                                      | 1; Optional  |
| • Number of compact flash slots                            | 1; CFast   |
| <b>Interfaces</b>  |  |
| Number of industrial Ethernet interfaces                   | 3; 3x Ethernet (RJ45)  |
| <b>Video interfaces</b>                                    |  |
| • Graphics interface                                       | 2x DisplayPort   |
| <b>Industrial Ethernet</b>                                 |  |
| • Industrial Ethernet interface                            |  |
| — 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  |
| • Fan  | No   |
| • Monitoring function via network                          | Optional   |
| <b>Degree and class of protection</b>                      |  |
| IP (at the front)  | IP65   |
| IP (rear)  | IP20   |
| <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  |
| FCC  | Yes  |
| <b>Use in hazardous areas</b>                              |  |
| • 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   |
| <b>Marine approval</b>                                     |  |
| • 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  |
| <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>Vibrations</b>  |  |
| • Vibration resistance during operation acc. to IEC 60068- | 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 |

2-6

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 LTSB, 64 bit, MUI   |

**Dimensions**

|                            |        |
|----------------------------|--------|
| Width of the housing front | 483 mm |
| Height of housing front    | 337 mm |
| Mounting cutout, width     | 465 mm |
| Mounting cutout, height    | 319 mm |
| mounting depth             | 76 mm  |

**Weights**

|                 |        |
|-----------------|--------|
| Weight, approx. | 8.4 kg |
|-----------------|--------|

**Approvals / Certificates**

|                                 |                             |
|---------------------------------|-----------------------------|
| <b>General Product Approval</b> | <b>Maritime application</b> |
|---------------------------------|-----------------------------|

[Miscellaneous](#)



[BIS CRS](#)

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|                             |                        |
|-----------------------------|------------------------|
| <b>Maritime application</b> | <b>Dangerous goods</b> |
|-----------------------------|------------------------|



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