

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; without PCIe; Windows7 Ultimate SP1, 64-bit, MUI (de, en, es, fr, it); CFast 16 GB, (only optionally with operating system/SW, if no internal mass storage); 480 GB solid-state drive 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                                                                                                                                               |

|                                                   |  |                                                               |
|---------------------------------------------------|--|---------------------------------------------------------------|
| <b>Hardware configuration</b>                     |  |                                                               |
| Slots                                             |  |                                                               |
| • 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)                                         |
| 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                                                           |
| <b>Interrupts/diagnostics/status information</b>  |  |                                                               |
| Bus diagnostics                                   |  | Yes                                                           |
| <b>Integrated Functions</b>                       |  |                                                               |
| Monitoring functions                              |  |                                                               |
| • 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                                                           |
| 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                                                           |
| <b>Ambient conditions</b>                         |  |                                                               |
| Ambient temperature during operation              |  |                                                               |
| • min.                                            |  | 0 °C                                                          |
| • max.                                            |  | 45 °C                                                         |
| Ambient temperature during storage/transportation |  |                                                               |
| • min.                                            |  | -20 °C                                                        |

|                                                               |                                                                                                                                                     |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| • max.                                                        | 60 °C                                                                                                                                               |
| <b>Vibrations</b>                                             |                                                                                                                                                     |
| • 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/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk) |
| <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                                                                                                                                       |
| pre-installed operating system                                |                                                                                                                                                     |
| • Windows 7                                                   | Yes; Ultimate 64 bit                                                                                                                                |
| • Windows 10 Enterprise                                       | Yes; Windows 10 Enterprise 2016 LTSP, 64 bit, MUI                                                                                                   |
| <b>Dimensions</b>                                             |                                                                                                                                                     |
| 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                                                                                                                                               |
| <b>Weights</b>                                                |                                                                                                                                                     |
| Weight, approx.                                               | 6.8 kg                                                                                                                                              |
| <b>Approvals / Certificates</b>                               |                                                                                                                                                     |
| <b>General Product Approval</b>                               |                                                                                                                                                     |



[Miscellaneous](#)



[BIS CRS](#)

|                            |                                                                                     |                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| General Product Approval   | Maritime application                                                                | Dangerous goods                                                                       |
| <a href="#">China RoHS</a> |  |    |
|                            |  |  |
|                            |                                                                                     | <a href="#">Test Summary Report UN 38.3</a>                                           |

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| <b>Dangerous goods</b>                      |
| <a href="#">Dangerous goods information</a> |

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