

SIMATIC IPC427E (Microbox PC), HD graphic onboard, 4x USB V3.0 (high current), PCIE (optional), Core i3-6102E; 3x Gbit Ethernet (IE/PN) Mounting onto standard rail; 8 GB and NVRAM; 2x RS232/485; without PCIe; without operating system, Without replaceable mass storage; 320 GB HDD SATA; Without SIMATIC software; 24 V DC industrial power supply

| General information  |  |
|--|--|
| Product type designation   | IPC427E  |
| Installation type/mounting   |  |
| Mounting   | DIN rail, wall mounting, portrait mounting   |
| Design   | Box PC, built-in unit  |
| Supply voltage   |  |
| Type of supply voltage   | 24 V DC  |
| Rated value (DC)   | 24 V; PELV / SELV floating   |
| Mains buffering  |  |
| <ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>   | 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   |  |
| Slots  |  |
| <ul style="list-style-type: none"> <li>Number of PCI slots</li> <li>Number of compact flash slots</li> </ul>   | 2; Optional<br>1; CFast  |
| Interfaces   |  |
| Number of industrial Ethernet interfaces   | 3; Ethernet (2x RJ45, optional 3x RJ45)  |
| serial interface   | Without / 2x COM (RS 232 / 485 / 422; switchable)  |
| 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                             <ul style="list-style-type: none"> <li>— 100 Mbps</li> <li>— 1000 Mbps</li> </ul> </li> </ul> | Yes<br>Yes   |
| Interrupts/diagnostics/status information  |  |
| LED status display   | 1x power, 3x user  |
| Bus diagnostics  | Yes  |
| Integrated Functions   |  |
| Monitoring functions   |  |
| <ul style="list-style-type: none"> <li>Temperature monitoring</li> <li>Fan</li> <li>Monitoring function via network</li> </ul>   | Yes<br>No<br>Optional  |

| Degree and class of protection                                |   |
|---|---|
| IP degree of protection                                       | IP20  |
| Standards, approvals, certificates                            |   |
| CE mark   | 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  | No  |
| • IECEx Zone 2  | Yes; for inscription on device rating plate   |
| • IECEx Zone 22   | No  |
| • 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                                   | No  |
| • 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.  | 55 °C   |
| Ambient temperature during storage/transportation             |   |
| • min.  | -40 °C  |
| • max.  | 70 °C   |
| Vibrations  |   |
| • 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)      |
| 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 32 bit or 64 bit  |
| • Windows 10 Enterprise                                       | Yes; Windows 10 Enterprise 2016 LTSC, 64 bit, MUI   |
| Software  |   |
| Pre-installed software  | Edge SW (Simatic, Sinumerik), optional  |
| Dimensions  |   |
| Width   | 262 mm  |
| Height  | 139.7 mm  |
| Depth   | 55.5 mm; without PCIe   |
| Approvals / Certificates                                      |   |
| General Product Approval                                      |   |



[Manufacturer Declaration](#)



General Product Approval

For use in hazardous locations



[BIS CRS](#)



For use in hazardous locations

Maritime application



IECEX

[Miscellaneous](#)

[CCC-Ex](#)



ABS



BUREAU  
VERITAS



DNV

Maritime application

Dangerous goods



LRS

[NK / Nippon Kaiji Kyokai](#)

[CCS \(China Classification Society\)](#)

[KR \(Korean Register of Shipping\)](#)

[Dangerous goods information](#)

[Test Summary Report UN 38.3](#)

Dangerous goods

Environment

[Dangerous goods information](#)

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