

SIMATIC IPC427E (Microbox PC), HD graphic onboard, 4x USB V3.0 (high current), PCIe (optional), Core i5-6442EQ; 3x Gbit Ethernet (IE/PN); Mounting onto standard rail; 16 GB and NVRAM; Without RS232/485, without PCIe; without operating system, Without replaceable mass storage; 480 GB solid-state drive 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	
• 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	2; Optional
• Number of compact flash slots	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	
• Graphics interface	2x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	
— 100 Mbps	Yes
— 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Bus diagnostics	Yes
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Fan	No
• Monitoring function via network	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/s² (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		139.69999 mm	
Depth		55.5 mm; without PCIe	
Classifications			
		Version	Classification
		eClass	16
		eClass	14
		eClass	12

eClass	9.1	19-20-01-02
eClass	9	19-20-01-02
eClass	8	19-20-01-02
eClass	7.1	19-20-01-02
eClass	6	19-20-01-02
ETIM	10	EC001413
ETIM	9	EC001413
ETIM	8	EC001413
ETIM	7	EC001413

Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)



General Product Approval

For use in hazardous locations



[BIS CRS](#)



For use in hazardous locations

Maritime application



[Miscellaneous](#)

[CCC-Ex](#)



Maritime application

Dangerous goods



[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](#)

[Test Summary Report UN 38.3](#)

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