

SIMATIC IPC627E (Box PC), UHD Graphics onboard; DP/DVI-D; 3x Gigbit Ethernet (IE/PN); 6x USB V3.1 Gen.2; 1x serial (COM 1); RAID controller onboard; Watchdog, temperature and fan monitoring; Core i7-8700 (6C/12T, 3.2(4.6) GHz, 12 MB cache, VT-d, AMT); NVRAM; SSD 2.5" SATA 480 GB internal; 16 GB DDR4-2666 (2x8); 24 V DC industrial power supply Windows 10 Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es) For Core i7; SIMATIC IPC DiagMonitor supplied; 2x USB 2.0 (1 slot occupied); 1x PCIe (x16), 1x PCI

General information	
Product type designation	IPC627E
Installation type/mounting	
Mounting	Wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	100/240 V AC (autorange); 24 V DC
Line frequency	
<ul style="list-style-type: none"> Rated value 50 Hz Rated value 60 Hz 	<ul style="list-style-type: none"> Yes Yes
Mains buffering	
<ul style="list-style-type: none"> Mains/voltage failure stored energy time 	20 ms
Processor	
Processor type	Celeron G4900 (2C/2T, 3.1 GHz, 2 MB cache; VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d, AMT)
Chipset	Intel C246
Graphic	
Graphics controller	Intel UHD Graphics 630 (Core i); Intel UHD Graphics 610 (Celeron)
Drives	
Hard disk	2.5" SATA ≥ 320 GB
SSD	Yes; SSD M.2 NVMe 512 GB; SSD 2.5" SATA 480 / 960 GB; RAID1 2x SSD 2.5" SATA 480 / 960 GB in removable drive bay
Memory	
Type of memory	DDR4-2666 DIMM
Main memory	4 / 8 / 16 / 32 / 64 GB
Capacity of main memory, max.	64 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
Hardware configuration	
Slots	
<ul style="list-style-type: none"> Number of PCI slots Number of PCI slots 	<ul style="list-style-type: none"> 3; Optional 5; Optional
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
serial interface	1x COM
Video interfaces	
<ul style="list-style-type: none"> Graphics interface 	2x DisplayPort; 1x DVI-D
Industrial Ethernet	
<ul style="list-style-type: none"> Industrial Ethernet interface <ul style="list-style-type: none"> — 100 Mbps — 1000 Mbps 	<ul style="list-style-type: none"> Yes Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Integrated Functions	
Monitoring functions	

<ul style="list-style-type: none"> • Temperature monitoring 	Yes	
<ul style="list-style-type: none"> • Fan 	Yes	
<ul style="list-style-type: none"> • Monitoring function via network 	Optional	
Degree and class of protection		
IP degree of protection	IP20	
Standards, approvals, certificates		
CE mark	Yes	
UL approval	Yes	
cULus	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition	
RCM (formerly C-TICK)	Yes	
KC approval	Yes	
EAC (formerly Gost-R)	Yes	
FCC	Yes	
BSMI	Yes	
Use in hazardous areas		
<ul style="list-style-type: none"> • cULus Class I Zone 2, Division 2 	Yes; Optional	
Marine approval		
<ul style="list-style-type: none"> • American Bureau of Shipping (ABS) 	Yes; Only with SSD	
<ul style="list-style-type: none"> • Bureau Veritas (BV) 	Yes; Only with SSD	
<ul style="list-style-type: none"> • Det Norske Veritas (DNV) 	Yes; Only with SSD	
<ul style="list-style-type: none"> • Korean Register of Shipping (KRS) 	Yes; Only with SSD	
<ul style="list-style-type: none"> • Lloyds Register of Shipping (LRS) 	Yes; Only with SSD	
<ul style="list-style-type: none"> • Nippon Kaiji Kyokai (Class NK) 	Yes; Only with SSD	
<ul style="list-style-type: none"> • Chinese Classification Society (CCS) 	Yes; Only with SSD	
Ambient conditions		
Ambient temperature during operation		
<ul style="list-style-type: none"> • min. 	5 °C	
<ul style="list-style-type: none"> • max. 	55 °C	
Ambient temperature during storage/transportation		
<ul style="list-style-type: none"> • min. 	-20 °C	
<ul style="list-style-type: none"> • max. 	60 °C	
Vibrations		
<ul style="list-style-type: none"> • Vibration resistance during operation acc. to IEC 60068-2-6 	tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s ² (1 g)	
Operating systems		
pre-installed operating system	Windows 10 Enterprise 2016 LTSP or 2019 LTSC or 2021 LTSC 64 bit, MUI	
without operating system	Yes; Optional	
pre-installed operating system		
<ul style="list-style-type: none"> • Windows 10 Enterprise 	Yes; Windows 10 Enterprise 2016 LTSP or 2019 LTSC or 2021 LTSC 64 bit, MUI	
Dimensions		
Width	314 mm	
Height	93 mm; For variant 5x PCI(e): 155 mm	
Depth	301 mm; incl. mounting rail	
Classifications		
	Version	Classification
eClass	14	19-20-01-02
eClass	12	19-20-01-02
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

Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)



[inspection certificate](#)

General Product Approval

Maritime application



[BIS CRS](#)



Maritime application



[NK / Nippon Kaiji Kyokai](#)

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

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

other

Dangerous goods

Environment



[Dangerous goods information](#)

[Environmental Confirmations](#)

[Environmental Confirmations](#)

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