









SIMATIC IPC227E (Nanobox PC); 1x display port; 2x 10/100/1000 Mbit/s Ethernet RJ45; 1 x USB3.0, 3 x USB2.0; CFast slot; 24 V DC industrial power supply
Celeron N2930 (4C/4T) 4 GB with NVRAM Box: PCIE without COM without operating system without mass storage, with CFast slot without SIMATIC software
DIN rail mounting

General information	
Product type designation	IPC227E
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
Mains buffering	
<ul style="list-style-type: none"> Mains/voltage failure stored energy time 	20 ms
Processor	
Processor type	Intel Celeron N2807 / N2930, Intel Atom E3845
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
Hard disk	2.5" SATA ≥ 320 GB
SSD	Yes; 256 Eco / 240 / 480 GB
Memory	
Type of memory	DDR3L SO-DIMM
Main memory	2 / 4 / 8 GB
Capacity of main memory, max.	8 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"> Number of PCI slots Number of compact flash slots 	1; Optional 1; CFast
Interfaces	
Number of industrial Ethernet interfaces	2; 2x Ethernet (RJ45)
serial interface	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS
Video interfaces	
<ul style="list-style-type: none"> Graphics interface 	1x DisplayPort
Industrial Ethernet	
<ul style="list-style-type: none"> Industrial Ethernet interface <ul style="list-style-type: none"> — 100 Mbps — 1000 Mbps 	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 Fan Monitoring function via network 	Yes No Optional
Degree and class of protection	
IP degree of protection	IP40
Standards, approvals, certificates	

CE mark	Yes				
UL approval	Yes				
• UL 508	Yes				
cULus	Yes				
RCM (formerly C-TICK)	Yes				
KC approval	Yes				
FCC	Yes				
Dust protection	Protection against foreign bodies > 1 mm				
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				
• Chinese Classification Society (CCS)	Yes				
Ambient conditions					
Ambient temperature during operation					
• min.	0 °C; -20 °C as option				
• max.	60 °C				
Ambient temperature during storage/transportation					
• min.	-20 °C				
• max.	60 °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 ² (1 g)				
Operating systems					
pre-installed operating system	Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 7 E/P, 32-bit / 64-bit				
without operating system	Yes; Optional				
pre-installed operating system					
• Windows 7	Yes; Ultimate 32 bit or 64 bit				
• Windows 10	Yes; Windows 10 IoT Enterprise 2016 LTSC, 64bit, MUI				
• Windows 10 Enterprise	Yes; Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI				
Dimensions					
Width	191 mm				
Height	100 mm				
Depth	60 mm				
Approvals / Certificates					
General Product Approval					
Miscellaneous			Manufacturer Declaration		
General Product Approval					
		BIS CRS	China RoHS		
For use in hazardous locations		Maritime application			



ATEX



IECEX

[Miscellaneous](#)



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

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last modified:

5/24/2026