

SIMATIC IPC277E (Nanopanel PC); 12" Touch TFT; 2x 10/100/1000 Mbps Ethernet RJ45; 1x display port graphic; 1x USB 3.0; 3x USB 2.0; 1x serial (COM 1); CFast slot; 24 V DC power supply Celeron N2930 (4C/4T) 4 GB RAM; Windows 10 IoT Enterprise LTSC 2016, 64 bit, MUI (en,de,fr,it,es) 240 GB SSD without SIMATIC software

General information	
Product type designation	IPC277E
Display	
Design of display	12" TFT touch
Screen diagonal	12 in
Resolution (pixels)	
• Horizontal image resolution	1 280 pixel
• Vertical image resolution	800 pixel
Backlighting	
• MTBF backlighting (at 25 °C)	80 000 h
Control elements	
Touch operation	
• Design as touch screen	Yes; analog, resistive
Installation type/mounting	
Design	Panel PC, built-in unit
central design	Yes
Mounting in portrait format possible	Yes
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Processor	
Processor type	Intel Celeron N2807 / N2930
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
SSD	Yes; 256 Eco / 240 / 480 GB
Storage	
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	
• Number of compact flash slots	1; CFast
Interfaces	
Number of industrial Ethernet interfaces	2; 2x Ethernet (RJ45)
serial interface	1x COM (1x RS 232 / 422 / 485), selectable in the BIOS
Video interfaces	
• Graphics interface	1x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	
— 100 Mbps	Yes
— 1000 Mbps	Yes

Interrupts/diagnostics/status information			
LED status display		No	
Integrated Functions			
Monitoring functions			
• Temperature monitoring		Yes	
• Fan		No	
• Monitoring function via network		Optional	
Degree and class of protection			
IP (at the front)		IP65	
IP (rear)		IP20	
Standards, approvals, certificates			
CE mark		Yes	
UL approval		Yes	
• UL 508		Yes	
cULus		Yes	
RCM (formerly C-TICK)		Yes	
KC approval		Yes	
FCC		Yes	
Marine approval			
• Germanischer Lloyd (GL)		Yes; 7", 9", 12" single-touch	
• American Bureau of Shipping (ABS)		Yes; 7", 9", 12" ST; 12", 15", 19" MT	
• Bureau Veritas (BV)		Yes; 7", 9", 12" ST; 12", 15", 19" MT	
• Det Norske Veritas (DNV)		Yes; 7", 9", 12" ST; 12", 15", 19" MT	
• Korean Register of Shipping (KRS)		Yes; 7", 9", 12" ST; 12", 15", 19" MT	
• Lloyds Register of Shipping (LRS)		Yes; 7", 9", 12" ST; 12", 15", 19" MT	
• Nippon Kaiji Kyokai (Class NK)		Yes; 7", 9", 12" ST; 12", 15", 19" MT	
• Chinese Classification Society (CCS)		Yes; 7", 9", 12" ST; 12", 15", 19" MT	
Ambient conditions			
Ambient temperature during operation			
• min.		0 °C	
• max.		50 °C; 19": max. 45 °C	
Ambient temperature during storage/transportation			
• min.		-20 °C	
• max.		60 °C	
Vibrations			
• Vibration resistance during operation acc. to IEC 60068-2-6		Tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 500 Hz: 9.8 m/s²	
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 of the housing front		330 mm	
Height of housing front		241 mm	
Mounting cutout, width		310 mm	
Mounting cutout, height		221 mm	
mounting depth		73 mm	
Weights			
Weight, approx.		2.75 kg	
Classifications			
		Version	Classification
	eClass	16	19-20-01-03
	eClass	14	19-20-01-03
	eClass	12	19-20-01-03

eClass	9.1	19-20-01-03
eClass	9	19-20-01-03
eClass	8	27-24-23-01
eClass	7.1	27-24-23-01
eClass	6	27-24-23-01
ETIM	10	EC001414
ETIM	9	EC001414
ETIM	8	EC001414
ETIM	7	EC001414

Approvals / Certificates

General Product Approval	Test Certificates
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[Type Test Certificates/Test Report](#)

Test Certificates	other	Environment
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[Miscellaneous](#)[Confirmation](#)[Confirmation](#)[Environmental Confirmations](#)

last modified:

6/11/2026 