

SIMATIC IPC277D (Nanopanel PC) 7" Touch TFT; 2x 10/100/1000 Mbps Ethernet RJ45; 3x USB V2.0 (high current); 1x serial (COM 1); Compact Flash slot; 24 V DC power supply

General information	
Product type designation	IPC277D
Display	
Design of display	7" TFT touch
Screen diagonal	7 in
Resolution (pixels)	
• Horizontal image resolution	800 Pixel
• Vertical image resolution	480 Pixel
Backlighting	
• MTBF backlighting (at 25 °C)	80 000 h
Control elements	
Input device	
• Mouse, at front	No
Keyboard fonts	
• Function keys	No
• alphanumeric keyboard	No
Touch operation	
• Design as touch screen	Yes
Installation type/mounting	
Design	Panel PC, built-in unit
central design	Yes
distributed design	No
Mounting in portrait format possible	Yes
maximum permissible installation angle +/-	45°
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Power loss	
In full configuration	26.4 W
Processor	
Processor type	Intel Atom E6x0

Drives	
Optical drives	possible as external drive via USB
Hard disk	CF or SSD
SSD	Yes; ≥ 80 GB optional

Memory	
Main memory	1 GB to 2 GB
Capacity of main memory, max.	2 Gbyte

Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	128 kbyte

Hardware configuration	
Slots	
<ul style="list-style-type: none"> Number of compact flash slots 	1; CompactFlash

Interfaces	
USB port	Yes
Connection for keyboard/mouse	USB / USB
serial interface	COM1 (RS232)

Industrial Ethernet	
<ul style="list-style-type: none"> Industrial Ethernet interface <ul style="list-style-type: none"> — 100 Mbps — 1000 Mbps 	2 x Fast Ethernet Yes Yes

Integrated Functions	
Monitoring functions	
<ul style="list-style-type: none"> Temperature monitoring Watchdog Status LEDs Fan 	Yes Yes No No

Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20

Standards, approvals, certificates	
Approval	CE, cULus (508)
CE mark	Yes
cULus	Yes
Marine approval	
<ul style="list-style-type: none"> Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) 	Yes; 7", 9", 12" Yes; 7", 9", 12" Yes; 7", 9", 12" Yes; 7", 9", 12" Yes; 7", 9", 12"

Ambient conditions

Ambient temperature during operation

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|--|------------------------|
| • Ambient temperature during operation | 0 °C to 50 °C |
| • min. | 0 °C |
| • max. | 50 °C; 19": max. 45 °C |

Operating systems

Operating system	Windows 7 Ultimate (Multi-Language) 32-bit / 64-bit
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pre-installed operating system	Yes
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pre-installed operating system

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|---------------------------|-----|
| • Windows XP Professional | Yes |
| • Windows 7 | Yes |

Software

SIMATIC Software	Optionally with pre-installed software bundle SIMATIC WinCC RT Advanced / WinAC RTX
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Accessories

Accessory components	Touch protective foil
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Dimensions

Operator control unit (W x H) in mm	214 mm x 158 mm
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| • Operator panel width | 214 mm |
| • Operator panel height | 158 mm |

Install. dimensions, centralized design (W x H x D without optical drive) in mm	
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| • Width | 197 mm |
| • Height | 141 mm |
| • Depth | 71 mm |

Mounting cutout/device depth (W x H x T)	197 mm x 141 mm x 71 mm
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Weights

Panel PC in central design, approx.	1.5 kg
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last modified:	05/29/2018
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