

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 ATOM E660 (1.3 GHz), 2 GB RAM standard front 4 GB SIMATIC PC CompactFlash WES 7 SP1 (CF 4 GB or more/SSD) WinCC Advanced RT V13 2048 PT (including logging and recipes); WinCC RT Adv. V14 license package;

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	
• Number of compact flash slots	1; CompactFlash
Interfaces	
USB port	Yes
Connection for keyboard/mouse	USB / USB
serial interface	COM1 (RS232)
Industrial Ethernet	
• Industrial Ethernet interface	2 x Fast Ethernet
— 100 Mbps	Yes
— 1000 Mbps	Yes
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Status LEDs	No
• Fan	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	
• Germanischer Lloyd (GL)	Yes; 7", 9", 12"
• American Bureau of Shipping (ABS)	Yes; 7", 9", 12"

• Bureau Veritas (BV)	Yes; 7", 9", 12"
• Det Norske Veritas (DNV)	Yes; 7", 9", 12"
• Lloyds Register of Shipping (LRS)	Yes; 7", 9", 12"

Ambient conditions

Ambient temperature during operation

• Ambient temperature during operation	0 °C to 50 °C
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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

• 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

Mounting dimensions in centralized configuration (W x H x D) in mm

• 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: 11/20/2018