

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	
• 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
• min.	0 °C
• max.	50 °C; 19": max. 45 °C
Operating systems	
Operating system	Windows 7 Ultimate (Multi-Language) 32-bit / 64-bit
pre-installed operating system	Yes
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
Accessories	
Accessory components	Touch protective foil
Dimensions	
Operator control unit (W x H) in mm	214 mm x 158 mm
• Operator panel width	214 mm
• Operator panel height	158 mm
Install. dimensions, centralized design (W x H x D without optical drive) 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
Weights	
Panel PC in central design, approx.	1.5 kg
last modified:	02/06/2018