

SIMATIC IPC277D (Nanopanel PC) 12" 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 240 GB Solid-State-Drive SATA Windows 7 SP1, MUI (SSD) without SIMATIC software

General information	
Product type designation	IPC277D
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	
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	31.2 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

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 330 mm x 241 mm

- Operator panel width 330 mm
- Operator panel height 241 mm

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

- Width 310 mm
- Height 221 mm
- Depth 66 mm

Mounting cutout/device depth (W x H x T) 310 mm x 221 mm x 66 mm

Weights

Panel PC in central design, approx. 2.75 kg

last modified: 02/01/2019