

SIMATIC IPC277D (Nanopanel PC) 15" Touch TFT, Front USB; 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
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Display

Design of display	15" TFT touch
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Screen diagonal	15 in
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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 |
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Installation type/mounting

Design	Panel PC, built-in unit
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central design	Yes
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distributed design	No
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Mounting in portrait format possible	Yes
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maximum permissible installation angle +/-	45°
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Supply voltage

Type of supply voltage	24 V DC
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Mains buffering

- | | |
|--|-------|
| • Mains/voltage failure stored energy time | 20 ms |
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Power loss

In full configuration	42 W
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Processor

Processor type	Intel Atom E6x0
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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	
• 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	415 mm x 310 mm
• Operator panel width	415 mm
• Operator panel height	310 mm
Install. dimensions, centralized design (W x H x D without optical drive) in mm	
• Width	395 mm
• Height	290 mm
• Depth	73 mm
Mounting cutout/device depth (W x H x T)	395 mm x 290 mm x 73 mm
Weights	
Panel PC in central design, approx.	4 kg
last modified:	08/03/2018