

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

### 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	
<ul style="list-style-type: none"> <li>Number of compact flash slots</li> </ul>	1; CompactFlash

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

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

Integrated Functions	
Monitoring functions	
<ul style="list-style-type: none"> <li>Temperature monitoring</li> <li>Watchdog</li> <li>Status LEDs</li> <li>Fan</li> </ul>	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"> <li>Germanischer Lloyd (GL)</li> <li>American Bureau of Shipping (ABS)</li> <li>Bureau Veritas (BV)</li> <li>Det Norske Veritas (DNV)</li> <li>Lloyds Register of Shipping (LRS)</li> </ul>	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          |
| • 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

- |                           |     |
|---------------------------|-----|
| • 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	330 mm x 241 mm
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|-------------------------|--------|
| • Operator panel width  | 330 mm |
| • Operator panel height | 241 mm |

Install. dimensions, centralized design (W x H x D without optical drive) in mm	
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- |          |        |
|----------|--------|
| • 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
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## Weights

Panel PC in central design, approx.	2.75 kg
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<b>last modified:</b>	03/16/2018
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