

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

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| Product type designation | IPC277D |
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Display

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|-------------------|--------------|
| Design of display | 7" TFT touch |
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|-----------------|------|
| Screen diagonal | 7 in |
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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 |
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Installation type/mounting

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| 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

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| Type of supply voltage | 24 V DC |
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Mains buffering

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

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| In full configuration | 26.4 W |
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Processor

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| 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 — 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 |
| • min. | 0 °C |
| • max. | 50 °C; 19": max. 45 °C |

Operating systems

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| 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

- | | |
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| • Windows XP Professional | Yes |
| • Windows 7 | Yes |

Software

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| SIMATIC Software | Optionally with pre-installed software bundle SIMATIC WinCC RT Advanced / WinAC RTX |
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Accessories

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| Accessory components | Touch protective foil |
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Dimensions

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| 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 |

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| Install. dimensions, centralized design (W x H x D without optical drive) in mm | |
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|----------|--------|
| • Width | 197 mm |
| • Height | 141 mm |
| • Depth | 71 mm |

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| Mounting cutout/device depth (W x H x T) | 197 mm x 141 mm x 71 mm |
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Weights

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| Panel PC in central design, approx. | 1.5 kg |
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| last modified: | 12/14/2017 |
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