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## Data sheet 6AV7881-1AF00-2BC0

***No longer available*** SIMATIC IPC277D (Nanopanel PC) 7" Touch TFT; 2x 10/100/1000 Mbps Ethernet RJ45; 3x USB V2.0 (high current); 1x serial (COM 1); CompactFlash slot; 24 V DC power supply ATOM E660 (1.3 GHz), 2 GB RAM; Retentivity standard front 4 GB SIMATIC PC CompactFlash WES 2009 SP3 (CF 2 GB or more/SSD) WinAC RTX F 2010

| | |
|---|---|
| **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** | |
| Keyboard | |
| ● 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 |
| **Supply voltage** | |
| Type of supply voltage | 24 V DC |
| Mains buffering | |
| ● Mains/voltage failure stored energy time | 20 ms |
| **Processor** | |
| Processor type | Intel Atom E6x0 |
| **Drives** | |
| Optical drives | possible as external drive via USB |
| Hard disk | CF or SSD |
| SSD | Yes; ≥ 240 GB optional |
| **Storage** | |
| 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** | |
| serial interface | COM1 (RS 232) |
| Industrial Ethernet | |
| ● Industrial Ethernet interface | |
| — 100 Mbps | Yes |
| — 1000 Mbps | Yes |
| **Interrupts/diagnostics/status information** | |
| LED status display | No |


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| | |
|---|---|
| **Integrated Functions** | |
| Monitoring functions | |
| ● Temperature monitoring | Yes |
| ● Fan | No |
| **Degree and class of protection** | |
| IP (at the front) | IP65 |
| IP (rear) | IP20 |
| **Standards, approvals, certificates** | |
| 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 | |
| ● min. | 0 °C |
| ● max. | 50 °C; 19": max. 45 °C |
| **Operating systems** | |
| pre-installed operating system | |
| ● Windows XP Professional | No |
| ● Windows 7 | No |
| **Dimensions** | |
| Width of the housing front | 214 mm |
| Height of housing front | 158 mm |
| Mounting cutout, width | 197 mm |
| Mounting cutout, height | 141 mm |
| mounting depth | 71 mm |
| **Weights** | |
| Weight, approx. | 1.9 kg |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 19-20-01-03 |
| eClass | 14 | 19-20-01-03 |
| eClass | 12 | 19-20-01-03 |
| eClass | 9.1 | 19-20-01-03 |
| eClass | 9 | 19-20-01-03 |
| eClass | 8 | 27-24-23-01 |
| eClass | 7.1 | 27-24-23-01 |
| eClass | 6 | 27-24-23-01 |
| ETIM | 10 | EC001414 |
| ETIM | 9 | EC001414 |
| ETIM | 8 | EC001414 |
| ETIM | 7 | EC001414 |

**Approvals / Certificates**

**General Product Approval**

Manufacturer Declaration

| General Product Approval | Maritime application | Dangerous goods |
|---|---|---|


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CCS (China Classification Society) | KR (Korean Register of Shipping) | Dangerous goods information

| Dangerous goods | Environment | |
|---|---|---|
| Test Summary Report UN 38.3 | Environmental Confirmations | Environmental Confirmations |

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