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## Data sheet 6AV7886-0CB12-1AA0

SIMATIC IPC277G (nanopanel PC); 12" multi-touch (1280 x 800); 3x 10/100/1000 Mbps Ethernet RJ45; 2x display port graphic; 4x USB 3.1, 2x M.2 extension slot; 24 V DC industrial power supply Atom X6413E (4-core); 4 GB RAM / with USB flash drive (documentation); 1x COM; without mass storage; without hardware extension; without software; ;

| | |
|---|---|
| **General information** | |
| Product type designation | IPC277G |
| **Display** | |
| Design of display | 12" TFT multi-touch |
| Screen diagonal | 12 in |
| Resolution (pixels) | |
| ● Horizontal image resolution | 1 280 pixel |
| ● Vertical image resolution | 800 pixel |
| Backlighting | |
| ● MTBF backlighting (at 25 °C) | 70 000 h |
| **Control elements** | |
| Touch operation | |
| ● Design as multi-touch screen | Yes; Projective-capacitive |
| **Installation type/mounting** | |
| Mounting | For horizontal and vertical mounting |
| Design | Panel PC, built-in unit |
| central design | Yes |
| Mounting in portrait format possible | Yes |
| **Supply voltage** | |
| Type of supply voltage | 24 V DC |
| Rated value (DC) | 24 V |
| Mains buffering | |
| ● Mains/voltage failure stored energy time | 20 ms |
| **Processor** | |
| Processor type | Intel Atom X6211E / X6413E / X6414RE |
| Chipset | SoC |
| **Graphic** | |
| Graphics controller | Integrated |
| **Drives** | |
| SSD | Yes; 256 Eco / 240 / 480 GB |
| **Storage** | |
| Type of memory | DDR4 SO-DIMM |
| Main memory | 4 / 8 / 16 GB; inband ECC optional |
| Capacity of main memory, max. | 16 Gbyte |
| **Interfaces** | |
| Number of industrial Ethernet interfaces | 3; 3x Ethernet (RJ45) |
| serial interface | without / 1x / 2x COM (RS 232 / 485 / 422; selectable) |
| Video interfaces | |
| ● Graphics interface | 2x DisplayPort |
| Industrial Ethernet | |
| ● Industrial Ethernet interface | |
| — 100 Mbps | Yes |
| — 1000 Mbps | Yes |
| **Protocols** | |
| Protocols (Ethernet) | |
| ● DHCP | Yes |
| **Interrupts/diagnostics/status information** | |


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| | |
|---|---|
| LED status display | No |
| **Integrated Functions** | |
| Monitoring functions | |
| ● Temperature monitoring | Yes |
| ● Fan | No |
| ● Monitoring function via network | Optional |
| **Degree and class of protection** | |
| IP (at the front) | IP65 |
| IP (rear) | 20 |
| **Standards, approvals, certificates** | |
| CE mark | Yes |
| cULus | Yes |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| EAC (formerly Gost-R) | Yes |
| FCC | Yes |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | 0 °C |
| ● max. | 50 °C; from 19", 22", 24": max. 45 °C |
| Ambient temperature during storage/transportation | |
| ● min. | -20 °C |
| ● max. | 60 °C |
| Relative humidity | |
| ● Operation, max. | 85 % |
| Vibrations | |
| ● Vibration resistance during operation acc. to IEC 60068-2-6 | tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 200 Hz : 9.8m/s² (1 g) (except DIN Rail) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g) (DIN Rail) |
| **Operating systems** | |
| pre-installed operating system | Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI |
| without operating system | Yes; Optional |
| pre-installed operating system | |
| ● Windows 10 Enterprise | Yes; Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI |
| **Dimensions** | |
| Width of the housing front | 326 mm |
| Height of housing front | 237 mm |
| Mounting cutout, width | 310 mm |
| Mounting cutout, height | 221 mm |
| mounting depth | 104 mm |
| **Weights** | |
| Weight, approx. | 5.1 kg |

**Approvals / Certificates**

| General Product Approval | other | Environment |
|---|---|---|
| | Confirmation | Environmental Con-firmations |

**last modified:** 6/11/2026


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