SIEMENS

## Data sheet 6ES7647-8BB11-0RA1

SIMATIC IPC227E (Nanobox PC); 1x display port; 2x 10/100/1000 Mbit/s Ethernet RJ45; 1 x USB3.0, 3 x USB2.0; CFast slot; 24 V DC industrial power supply Celeron N2930 (4C/4T) 2 GB RAM; Box: Basis without COM without operating system 320 GB HDD; without SIMATIC software DIN rail mounting

| | |
|---|---|
| **General information** | |
| Product type designation | IPC227E |
| **Installation type/mounting** | |
| Mounting | DIN rail, wall mounting, portrait mounting |
| Design | Box PC, built-in unit |
| **Supply voltage** | |
| Type of supply voltage | 24 V DC |
| Mains buffering | |
| ● Mains/voltage failure stored energy time | 20 ms |
| **Processor** | |
| Processor type | Intel Celeron N2807 / N2930, Intel Atom E3845 |
| Chipset | SoC |
| **Graphic** | |
| Graphics controller | Integrated |
| **Drives** | |
| Hard disk | 2.5" SATA ≥ 320 GB |
| SSD | Yes; 256 Eco / 240 / 480 GB |
| **Storage** | |
| Type of memory | DDR3L SO-DIMM |
| Main memory | 2 / 4 / 8 GB |
| Capacity of main memory, max. | 8 Gbyte |
| **Data areas and their retentivity** | |
| Retentive data area (incl. timers, counters, flags), max. | 512 kbyte; 128 KB can be stored in the buffer time; optional |
| **Hardware configuration** | |
| Slots | |
| ● Number of PCI slots | 1; Optional |
| ● Number of compact flash slots | 1; CFast |
| **Interfaces** | |
| Number of industrial Ethernet interfaces | 2; 2x Ethernet (RJ45) |
| serial interface | Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS |
| Video interfaces | |
| ● Graphics interface | 1x DisplayPort |
| Industrial Ethernet | |
| ● Industrial Ethernet interface | |
| — 100 Mbps | Yes |
| — 1000 Mbps | Yes |
| **Interrupts/diagnostics/status information** | |
| LED status display | 1x power, 3x user |
| **Integrated Functions** | |
| Monitoring functions | |
| ● Temperature monitoring | Yes |
| ● Fan | No |
| ● Monitoring function via network | Optional |
| **Degree and class of protection** | |
| IP degree of protection | IP40 |
| **Standards, approvals, certificates** | |
| CE mark | Yes |


Subject to change without notice
© Copyright Siemes

| | |
|---|---|
| UL approval | Yes |
| ● UL 508 | Yes |
| cULus | Yes |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| FCC | Yes |
| Dust protection | Protection against foreign bodies > 1 mm |
| Marine approval | |
| ● Germanischer Lloyd (GL) | Yes |
| ● American Bureau of Shipping (ABS) | Yes |
| ● Bureau Veritas (BV) | Yes |
| ● Det Norske Veritas (DNV) | Yes |
| ● Korean Register of Shipping (KRS) | Yes |
| ● Lloyds Register of Shipping (LRS) | Yes |
| ● Nippon Kaiji Kyokai (Class NK) | Yes |
| ● Chinese Classification Society (CCS) | Yes |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | 0 °C; -20 °C as option |
| ● max. | 60 °C |
| Ambient temperature during storage/transportation | |
| ● min. | -20 °C |
| ● max. | 60 °C |
| Vibrations | |
| ● Vibration resistance during operation acc. to IEC 60068-2-6 | tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g) |
| **Operating systems** | |
| pre-installed operating system | Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 7 E/P, 32-bit / 64-bit |
| without operating system | Yes; Optional |
| pre-installed operating system | |
| ● Windows 7 | Yes; Ultimate 32 bit or 64 bit |
| ● Windows 10 | Yes; Windows 10 IoT Enterprise 2016 LTSB, 64bit, MUI |
| ● Windows 10 Enterprise | Yes; Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI |
| **Dimensions** | |
| Width | 191 mm |
| Height | 100 mm |
| Depth | 60 mm |
| **Approvals / Certificates** | |

**General Product Approval**

Miscellaneous | Manufacturer Declaration

**General Product Approval**

BIS CRS | China RoHS

**For use in hazardous locations**

Miscellaneous

**Maritime application**


© Copyright Siemes

| Maritime application | | | | Dangerous goods | |
|---|---|---|---|---|---|
|  | NK / Nippon Kaiji Kyokai | CCS (China Classification Society) | KR (Korean Register of Shipping) | Dangerous goods information | Test Summary Report UN 38.3 |

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

**last modified:** 5/24/2026


Subject to change without notice
© Copyright Siemes