SIEMENS

## Data sheet 6AG4131-3HK24-3AA0

SIMATIC IPC627E (Box PC), UHD Graphics onboard; DP/DVI-D; 3x Gigbit Ethernet (IE/PN); 6x USB V3.1 Gen.2; 1x serial (COM 1); RAID controller onboard; Watchdog, temperature and fan monitoring; Core i7-8700 (6C/12T, 3.2(4.6) GHz, 12 MB cache, VT-d, AMT); NVRAM; M.2 SSD NVMe 512 GB; HDD 2.5" SATA 320 GB internal; 16 GB DDR4-2666 (2x8); 110/230 V AC industrial power supply unit with NAMUR; Power supply cable China; Windows 10 Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es) For Core i7; without expansion (software); without expansion (HW); 2x PCI

| | |
|---|---|
| **General information** | |
| Product type designation | IPC627E |
| **Installation type/mounting** | |
| Mounting | Wall mounting, portrait mounting |
| Design | Box PC, built-in unit |
| **Supply voltage** | |
| Type of supply voltage | 100/240 V AC (autorange); 24 V DC |
| Line frequency | |
| ● Rated value 50 Hz | Yes |
| ● Rated value 60 Hz | Yes |
| Mains buffering | |
| ● Mains/voltage failure stored energy time | 20 ms |
| **Processor** | |
| Processor type | Celeron G4900 (2C/2T, 3.1 GHz, 2 MB cache; VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d, AMT) |
| Chipset | Intel C246 |
| **Graphic** | |
| Graphics controller | Intel UHD Graphics 630 (Core i); Intel UHD Graphics 610 (Celeron) |
| **Drives** | |
| Hard disk | 2.5" SATA ≥ 320 GB |
| SSD | Yes; SSD M.2 NVMe 512 GB; SSD 2.5" SATA 480 / 960 GB; RAID1 2x SSD 2.5" SATA 480 / 960 GB in removable drive bay |
| **Storage** | |
| Type of memory | DDR4-2666 DIMM |
| Main memory | 4 / 8 / 16 / 32 / 64 GB |
| Capacity of main memory, max. | 64 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 |
| **Hardware configuration** | |
| Slots | |
| ● Number of PCI slots | 3; Optional |
| ● Number of PCI slots | 5; Optional |
| **Interfaces** | |
| Number of industrial Ethernet interfaces | 3; 3x Ethernet (RJ45) |
| serial interface | 1x COM |
| Video interfaces | |
| ● Graphics interface | 2x DisplayPort; 1x DVI-D |
| Industrial Ethernet | |
| ● Industrial Ethernet interface | |
| — 100 Mbps | Yes |
| — 1000 Mbps | Yes |
| **Interrupts/diagnostics/status information** | |
| LED status display | 1x power, 3x user |
| **Integrated Functions** | |


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| | |
|---|---|
| Monitoring functions | |
| ● Temperature monitoring | Yes |
| ● Fan | Yes |
| ● Monitoring function via network | Optional |
| **Degree and class of protection** | |
| IP degree of protection | IP20 |
| **Standards, approvals, certificates** | |
| CE mark | Yes |
| UL approval | Yes |
| cULus | Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| EAC (formerly Gost-R) | Yes |
| FCC | Yes |
| BSMI | Yes |
| Use in hazardous areas | |
| ● cULus Class I Zone 2, Division 2 | Yes; Optional |
| Marine approval | |
| ● American Bureau of Shipping (ABS) | Yes; Only with SSD |
| ● Bureau Veritas (BV) | Yes; Only with SSD |
| ● Det Norske Veritas (DNV) | Yes; Only with SSD |
| ● Korean Register of Shipping (KRS) | Yes; Only with SSD |
| ● Lloyds Register of Shipping (LRS) | Yes; Only with SSD |
| ● Nippon Kaiji Kyokai (Class NK) | Yes; Only with SSD |
| ● Chinese Classification Society (CCS) | Yes; Only with SSD |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | 5 °C |
| ● max. | 55 °C |
| Ambient temperature during storage/transportation | |
| ● min. | -20 °C |
| ● max. | 60 °C |
| Vibrations | |
| ● Vibration resistance during operation acc. to IEC 60068-2-6 | tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s² (1 g) |
| **Operating systems** | |
| pre-installed operating system | Windows 10 Enterprise 2016 LTSB or 2019 LTSC or 2021 LTSC 64 bit, MUI |
| without operating system | Yes; Optional |
| pre-installed operating system | |
| ● Windows 10 Enterprise | Yes; Windows 10 Enterprise 2016 LTSB or 2019 LTSC or 2021 LTSC 64 bit, MUI |
| **Dimensions** | |
| Width | 314 mm |
| Height | 93 mm; For variant 5x PCI(e): 155 mm |
| Depth | 301 mm; incl. mounting rail |

**Approvals / Certificates**

**General Product Approval**

Manufacturer Declaration

inspection certificate

**General Product Approval** | **Maritime application**

BIS CRS


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| Maritime application | | | | | |
|---|---|---|---|---|---|
| | | | NK / Nippon Kaiji Kyokai | CCS (China Classification Society) | KR (Korean Register of Shipping) |

| other | Dangerous goods | Environment | |
|---|---|---|---|
| | Dangerous goods information | Environmental Confirmations | Environmental Confirmations |

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