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## Data sheet 6AG4141-3DF31-0DA0

SIMATIC IPC427E (Microbox PC), HD graphic onboard, 4x USB V3.0 (high current), PCIE (optional), Core i3-6102E; 3x Gbit Ethernet (IE/PN) Vertical mounting; 4 GB and NVRAM; 2x RS232/485; without PCIe; WIN Embedded Standard 7 SP1, English, 32-bit, Without replaceable mass storage; 256 GB Eco SSD; Without SIMATIC software; 24 V DC industrial power supply

| | |
|---|---|
| **General information** | |
| Product type designation | IPC427E |
| **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 |
| Rated value (DC) | 24 V; PELV / SELV floating |
| Mains buffering | |
| ● Mains/voltage failure stored energy time | 20 ms |
| **Processor** | |
| Processor type | Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT) |
| Chipset | Intel C236 / Intel H110 |
| **Graphic** | |
| Graphics controller | Intel HD graphics controller |
| **Drives** | |
| Hard disk | 2.5" SATA ≥ 320 GB |
| SSD | Yes; 128 / 240 / 480 GB |
| **Storage** | |
| Type of memory | DDR4-2400 SO-DIMM |
| Main memory | 4 / 8 / 16 GB, ECC optional |
| Capacity of main memory, max. | 16 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 | 2; Optional |
| ● Number of compact flash slots | 1; CFast |
| **Interfaces** | |
| Number of industrial Ethernet interfaces | 3; Ethernet (2x RJ45, optional 3x RJ45) |
| serial interface | Without / 2x COM (RS 232 / 485 / 422; switchable) |
| Video interfaces | |
| ● Graphics interface | 2x DisplayPort |
| Industrial Ethernet | |
| ● Industrial Ethernet interface | |
| — 100 Mbps | Yes |
| — 1000 Mbps | Yes |
| **Interrupts/diagnostics/status information** | |
| LED status display | 1x power, 3x user |
| Bus diagnostics | Yes |
| **Integrated Functions** | |
| Monitoring functions | |
| ● Temperature monitoring | Yes |
| ● Fan | No |
| ● Monitoring function via network | Optional |


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|---|---|
| **Degree and class of protection** | |
| IP degree of protection | IP20 |
| **Standards, approvals, certificates** | |
| CE mark | Yes |
| UL approval | Yes |
| ● UL 508 | Yes |
| cULus | Yes |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| EAC (formerly Gost-R) | Yes |
| FCC | Yes |
| Use in hazardous areas | |
| ● ATEX Zone 2 | Yes; for inscription on device rating plate |
| ● ATEX Zone 22 | No |
| ● IECEx Zone 2 | Yes; for inscription on device rating plate |
| ● IECEx Zone 22 | No |
| ● CCC Ex | Yes; for inscription on device rating plate |
| ● cULus Class I Zone 1 | No |
| ● cULus Class I Zone 2, Division 2 | Yes; for inscription on device rating plate |
| ● cULus Class II Division 2 | No |
| ● FM Class I Division 2 | No |
| ● FM Class II Division 2 | No |
| 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 |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | 0 °C |
| ● max. | 55 °C |
| Ambient temperature during storage/transportation | |
| ● min. | -40 °C |
| ● max. | 70 °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 (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10 |
| without operating system | Yes; Optional |
| pre-installed operating system | |
| ● Windows 7 | Yes; Ultimate 32 bit or 64 bit |
| ● Windows 10 Enterprise | Yes; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI |
| **Software** | |
| Pre-installed software | Edge SW (Simatic, Sinumerik), optional |
| **Dimensions** | |
| Width | 262 mm |
| Height | 139.7 mm |
| Depth | 55.5 mm; without PCIe |
| **Approvals / Certificates** | |
| **General Product Approval** | |


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Manufacturer Declaration

| General Product Approval | | | | | For use in hazardous locations |
|---|---|---|---|---|---|
| | BIS CRS | Manufacturer Declaration | | | |

| For use in hazardous locations | | | | Maritime application | |
|---|---|---|---|---|---|
| | Miscellaneous | | CCC-Ex | | |

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

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

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