SIEMENS

## Data sheet 6AG1141-5BG37-4FA0

SIPLUS IPC 427E based on 6AG4141-5BG37-0FA0 with conformal coating, 0…+55 °C, HD graphic onboard, 4x USB V3.0 (high current), PCIe (optional), 24 V DC power supply Core i5-6442EQ; 3x Gbit Ethernet (IE/PN); DIN-rail mounting; 8 GB and NVRAM; 2x RS232/485; without PCIe; Windows 10 IoT Enterprise 2016 LTSB (64-bit) for Celeron, I3 and I5, without exchangeable mass storage;

| | |
|---|---|
| **General information** | |
| Product type designation | IPC427E |
| based on | 6AG4141-5BG37-0FA0 |
| **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 |
| **Processor** | |
| Processor type | Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB cache) |
| **Graphic** | |
| Graphics controller | Intel HD graphics controller |
| Graphics card | Yes |
| **Drives** | |
| Hard disk | 2.5" SATA ≥ 320 GB |
| SSD | Yes; ≥ 80 GB, optional ≥ 160 GB |
| **Storage** | |
| Type of memory | DDR4 SO-DIMM |
| Main memory | 4 GB to 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 | 2; CFast |
| **Interfaces** | |
| Number of PROFINET interfaces | 1; 3 ports (incl. switch) |
| 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 | Yes |
| Bus diagnostics | Yes |
| **Integrated Functions** | |
| Monitoring functions | |
| ● Temperature monitoring | Yes |
| ● Monitoring function via network | Optional |
| **Degree and class of protection** | |
| IP (at the front) | IP20 |
| IP (rear) | IP20 |
| **Ambient conditions** | |


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| | |
|---|---|
| Ambient temperature during operation | |
| ● min. | 0 °C; = Tmin (incl. condensation/frost) |
| ● max. | 55 °C; = Tmax |
| Altitude during operation relating to sea level | |
| ● Installation altitude above sea level, max. | 5 000 m |
| ● Ambient air temperature-barometric pressure-altitude | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) |
| Relative humidity | |
| ● With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation |
| Resistance | |
| Use in stationary industrial systems | |
| — to biologically active substances according to EN 60721-3-3 | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request |
| — to chemically active substances according to EN 60721-3-3 | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| — to mechanically active substances according to EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust, * |
| Use on ships/at sea | |
| — to biologically active substances according to EN 60721-3-6 | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request |
| — to chemically active substances according to EN 60721-3-6 | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| — to mechanically active substances according to EN 60721-3-6 | Yes; Class 6S3 incl. sand, dust; * |
| Remark | |
| — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 | * The supplied plug covers must remain in place over the unused interfaces during operation! |
| Conformal coating | |
| ● Coatings for printed circuit board assemblies acc. to EN 61086 | Yes; Class 2 for high reliability |
| ● Protection against fouling acc. to EN 60664-3 | Yes; Type 1 protection |
| ● Military testing according to MIL-I-46058C, Amendment 7 | Yes; Discoloration of coating possible during service life |
| ● Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | Yes; Conformal coating, Class A |
| **Operating systems** | |
| pre-installed operating system | Windows 10 IoT Enterprise 2016 LTSB, 64bit, MUI |
| **Dimensions** | |
| Width | 262 mm |
| Height | 139.69999 mm |
| Depth | 55.5 mm |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 19-20-01-02 |
| eClass | 14 | 19-20-01-02 |
| eClass | 12 | 19-20-01-02 |
| eClass | 9.1 | 19-20-01-02 |
| eClass | 9 | 19-20-01-02 |
| eClass | 8 | 19-20-01-02 |
| eClass | 7.1 | 19-20-01-02 |
| eClass | 6 | 19-20-01-02 |
| ETIM | 10 | EC001413 |
| ETIM | 9 | EC001413 |
| ETIM | 8 | EC001413 |
| ETIM | 7 | EC001413 |
| IDEA | 4 | 6606 |
| UNSPSC | 15 | 43-21-15-06 |


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## Approvals / Certificates

### General Product Approval

Manufacturer Declaration

Declaration of Conformity

China RoHS

China RoHS

### General Product Approval

### Maritime application

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