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## Data sheet 6ES7647-6PJ66-0GA1

***No longer available*** SIMATIC IPC827C (Box PC), HD graphics onboard, 2x10/100/1000 Mbps Ethernet RJ45; 4xUSB V2.0 (high current); 1x serial (COM 1); RAID controller onboard; CompactFlash drive No. 1 on front; Watchdog, temp./fan monitoring Core I7-610E (2C/4T, 2.53GHz, TB, HT, VT, AMT, 4 MB cache); PROFINET; (3x RJ45, CP 1616-compatible); 2 MB buffered SRAM 4 GB DDR3 1066 DIMM; ECC; 24 V DC industrial Power supply 3x PCI, 1x PCIE (X4), 1x PCIE (X16) Free RAID1 2x 320 GB SATA (2.5") Windows XP Prof. SP3 MUI (de, en, fr, es, it) SIMATIC IPC DIAGMONITOR V4.5 enclosed

| | |
|---|---|
| **General information** | |
| Product type designation | IPC827C |
| **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 | Core i7-610E (2C/4T, 2.53 GHz, TB, HT, VT, AMT, 4MB cache); Core i3-330E (2C/4T, 2.13 GHz, HT, VT, 3MB cache); Celeron P4505 (2C/2T, 1.86 GHz, VT, 2MB cache); |
| Chipset | Intel QM57 Express Chipset |
| **Graphic** | |
| Graphics controller | Intel HD graphics controller |
| **Drives** | |
| Optical drives | DVD±R±RW combi-drive, optional |
| Hard disk | 3.5" SATA ≥ 250 GB, optional ≥ 500 GB; RAID1 2x 2.5" SATA ≥ 320 GB; all internal drives are vibration-damped |
| SSD | Yes; ≥ 240 GB optional |
| **Storage** | |
| Type of memory | DDR3-1066 DIMM |
| Main memory | 1 / 2 / 4 / 8 GB; ECC optional |
| Capacity of main memory, max. | 8 Gbyte |
| **Data areas and their retentivity** | |
| Retentive data area (incl. timers, counters, flags), max. | 2 Mbyte; 128 KB can be stored in the buffer time; optional |
| **Hardware configuration** | |
| Slots | |
| ● Number of PCI slots | 3 |
| ● Number of PCI slots | 2 |
| ● Number of compact flash slots | 1 |
| **Interfaces** | |
| PROFIBUS/MPI | Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5611-A2 |
| Number of PROFINET interfaces | 3; Optional |
| USB port | 4x USB 2.0 high speed/high current |
| parallel interface | optional LPT1 |
| Video interfaces | |
| ● Graphics interface | DVI-I: VGA / DVI combined |
| Industrial Ethernet | |
| ● Industrial Ethernet interface | Onboard, 2x 10 / 100 / 1000 Mbit, RJ45 |
| — 100 Mbps | Yes |


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| | |
|---|---|
| — 1000 Mbps | Yes |
| **Interrupts/diagnostics/status information** | |
| Bus diagnostics | Yes |
| **Integrated Functions** | |
| Monitoring functions | |
| ● Temperature monitoring | Yes |
| ● Watchdog | Yes |
| ● Fan | Yes |
| ● Monitoring function via network | Optional |
| **EMC** | |
| Interference immunity against discharge of static electricity | |
| ● Interference immunity against discharge of static electricity | ±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2 |
| Interference immunity against high-frequency electromagnetic fields | |
| ● Interference immunity against high frequency radiation | 10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6 |
| Interference immunity to cable-borne interference | |
| ● Interference immunity on supply cables | ±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric |
| ● Interference immunity on signal cables >30m | ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m |
| ● Interference immunity on signal cables < 30m | ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m |
| Interference immunity against voltage surge | |
| ● asymmetric interference | ±2 kV acc. to IEC 61000-4-5, surge asymmetric |
| ● symmetric interference | ±1 kV acc. to IEC 61000-4-5, surge symmetric |
| Interference immunity to magnetic fields | |
| ● Interference immunity to magnetic fields at 50 Hz | 100 A/m; to IEC 61000-4-8 |
| Emission of conducted and non-conducted interference | |
| ● Interference emission via line/AC current cables | EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A |
| **Degree and class of protection** | |
| IP (at the front) | IP20 |
| IP (rear) | IP20 |
| **Standards, approvals, certificates** | |
| CE mark | Yes |
| UL approval | Yes |
| ● UL 508 | Yes |
| cULus | Yes |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| FCC | Yes |
| EMC | CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005 |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | 5 °C |
| ● max. | 55 °C |
| Ambient temperature during storage/transportation | |
| ● min. | -20 °C |
| ● max. | 60 °C |
| Relative humidity | |
| ● Relative humidity | Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5% to 80% at 25 °C (no condensation), Storage: 5% to 95% at 25 °C (no condensation) |
| 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) |
| Shock testing | |
| ● Shock load during operation | Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks |
| **Operating systems** | |
| pre-installed operating system | Windows XP Prof. SP3, MUI; Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 2009 English on 8 GB CompactFlash; without operating system |


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| | |
|---|---|
| without operating system | Yes |
| pre-installed operating system | |
| ● Windows XP Professional | Yes |
| ● Windows 7 | Yes; Ultimate 32 bit or 64 bit |

## Dimensions

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|---|---|
| Width | 312 mm |
| Height | 153 mm; With DVD drive: 174 mm |
| Depth | 301 mm; incl. mounting rail |

## 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 |

## Approvals / Certificates

| General Product Approval | | | | | Maritime application |
|---|---|---|---|---|---|
| Miscellaneous | Manufacturer Declaration | | Manufacturer Declaration | China RoHS | |

## Dangerous goods

| | | | |
|---|---|---|---|
| Dangerous goods information | Test Summary Report UN 38.3 | Dangerous goods information | Test Summary Report UN 38.3 |

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