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## Data sheet 6AG4114-2GN20-2BX0

SIMATIC IPC847D (Rack PC) (Rack PC, 19", 4HU); 2x Gbit Ethernet (IE/PN), RJ45; 1x DVI-I; 2x display ports; 1x COM 1; 2x PS/2; audio; 4x USB 3.0 incl. 1x internal; 3x USB 2.0; Temp. and fan monitoring; Watchdog, Card retainer Core I5-4570TE (2C/4T, 2.7 (3.3) GHz, 4 MB cache, TB, VT-D, AMT); mainboard without fieldbus 240 GB SSD SATA, in removable frame; front-side 4 GB DDR3 SD-RAM (2x 2 GB), Dual channel Bus module 11 slots: 7X PCI, 3x PCIE X4, 1x PCIE X16; without hardware expansions COM2; LPT (1 slots occupied); Graphics onboard Windows 7 Ultimate, 64 bit, MUI (de, en, fr, es, it), SP1 without software 110/240V industrial power supply unit; with NAMUR, Power supply cable Europe

| | |
|---|---|
| **General information** | |
| Product type designation | IPC847D |
| **Installation type/mounting** | |
| Mounting | For horizontal and vertical installation; prepared for telescopic rails; 19" mounting bracket can be removed externally; tower kit (optional) |
| Design | Rack PC, 19", 4U |
| **Supply voltage** | |
| Type of supply voltage | 100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC; optional 100/240 V AC with UPS functionality incl. maintenance-free lead-tin battery |
| 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 | Xeon E3-1275 v3 (4C/8T, 3.5 (3.9) GHz, 8 MB cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache); Core i5-4570TE (2C/4T, 2.7 (3.3) GHz, 4 MB cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB cache) |
| Chipset | Intel DH82C226 PCH |
| **Graphic** | |
| Graphics controller | Onboard graphics controller Intel HD 4600 Graphics integrated into the processor / PCI-Express graphics card (Dual Head: 2x VGA or 2x DVI-D) in the PCIe (x16) slot (optional) |
| **Drives** | |
| Optical drives | DVD±R/RW (SlimLine) |
| Hard disk | 500 GB HDD, 1 TB HDD, 2x 1 TB HDD, RAID1 (2x 1 TB HDD, mirror disks), RAID1 (2x 1 TB HDD, mirror disks) + 1x 1 TB HDD as hot spare, RAID5 (3x 1 TB HDD, striping with parity), RAID5 (3x 1 TB HDD, striping with parity) + 1x 1 TB HDD as hot spare; RAID1 (2x 1 TB HDD SAS, mirror disks), RAID5 (3x 1 TB HDD SAS, striping with parity), RAID5 (3x 1 TB HDD SAS, striping with parity) + 1x 1 TB HDD SAS as hot spare incl. PCIe (x8) RAID SAS controller incl. ZMCP module |
| SSD | Yes; 240 GB SSD; RAID1 (2x 240 GB SSD, mirror disks) |
| Slot for drives | Mounted internally on the fixed hard disk support, or mounted internally in vibration/shock-absorbing hard disk support, or mounted at the front in the low-profile removable drive bay (hot-swap in RAID configurations) |
| **Storage** | |
| Main memory | 2 GB to 32 GB DDR3-1600 DIMM, ECC optional |
| Capacity of main memory, max. | 32 Gbyte |
| **Interfaces** | |
| Interfaces/bus type | 1x COM1, 1x COM2 (optional), 1x LPT (optional), 2x DisplayPort, 1x DVI-I, 2x PS/2, audio (Microphone In, Line Out), 7x USB, 2x Gigabit Ethernet, PROFIBUS or PROFINET optional |
| serial interface | COM1: 1x RS 232, COM2 (optional): 1x RS 232 |
| Video interfaces | |
| ● Graphics interface | 2x DisplayPort and 1x DVI-I onboard; 1x VGA via DVI-VGA adapter cable (optional); graphics card PCIe (x16), Dual Head (2x VGA or 2x DVI-D), 1 GB graphics memory (optional) |
| Industrial Ethernet | |


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| | |
|---|---|
| ● Industrial Ethernet interface | |
| — 100 Mbps | Yes |
| — 1000 Mbps | Yes |
| **Interrupts/diagnostics/status information** | |
| LED status display | POWER, ETHERNET 1, ETHERNET 2, PN \| MPI / DP, WATCHDOG, TEMP, FAN, HDD0 ALARM, HDD1 ALARM, HDD2 ALARM, HDD \| HDD3 ALARM |
| **Integrated Functions** | |
| Monitoring functions | |
| ● Temperature monitoring | Yes |
| ● Fan | Yes |
| ● Monitoring function via network | Optional |
| **Degree and class of protection** | |
| IP degree of protection | IP20 |
| IP (at the front) | IP41 |
| IP (rear) | IP20 |
| **Standards, approvals, certificates** | |
| CE mark | Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005) |
| CSA approval | Yes; Included in cULus |
| UL approval | Yes |
| cULus | Yes; UL 60950-1, file number E115352 |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| EAC (formerly Gost-R) | Yes |
| Dust protection | With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | 0 °C |
| ● max. | 50 °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: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g) |
| **Operating systems** | |
| pre-installed operating system | Windows 7 Ultimate, multi-language (32-bit/64-bit), Windows 10 Enterprise 2015 LTSB, multi-language (64-bit), Windows 10 Enterprise 2016 LTSB, multi-language (64-bit), Windows Server 2008 R2 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2012 R2 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit) |
| without operating system | Yes |
| **Dimensions** | |
| Width | 430 mm |
| Height | 177 mm; 4U |
| Depth | 444 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 |


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| | | |
|---|---|---|
| ETIM | 9 | EC001413 |
| ETIM | 8 | EC001413 |
| ETIM | 7 | EC001413 |

## Approvals / Certificates

### General Product Approval

Miscellaneous | Manufacturer Declaration | CE EG-Konf. | UKCA | KC | RCM

### General Product Approval

EAC | BIS CRS | China RoHS | CE EG-Konf. | UKCA | KC

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

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