

SIMATIC IPC647D (Rack PC, 19", 2 HU); 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 with PROFINET (3x RJ45, CP 1616-compatible) 1 TB HDD SATA, internal 0.5 G vibration, 5 G shock 16 GB DDR3 SD-RAM (2x 8 GB), Dual channel Bus module 2 slots: 2x PCIE X16; DVD +/-RW (SLIM) without expansion (HW); Graphics onboard Windows Server 2008 R2 Standard Edition incl. 5 clients, 64 bit, MUI (de, en, fr, es, it), SP1 without software 110/240V industrial power supply unit; with NAMUR, Power supply cable China

| General information | |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product type designation | IPC647D |
| Installation type/mounting | |
| Mounting | For horizontal installation; prepared for telescopic rails; 19" mounting bracket can be removed externally |
| Design | Rack PC, 19", 2U |
| Supply voltage | |
| Type of supply voltage | 100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC |
| Line frequency | |
| <ul style="list-style-type: none"> Rated value 50 Hz Rated value 60 Hz | <ul style="list-style-type: none"> Yes Yes |
| Mains buffering | |
| <ul style="list-style-type: none"> Mains/voltage failure stored energy time | 20 ms |
| Processor | |
| Processor type | 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 SAS, mirror disks) with PCIe (x8) RAID 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) |
| Memory | |
| 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 | |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> Industrial Ethernet interface — 100 Mbps — 1000 Mbps | <ul style="list-style-type: none"> Yes Yes |

| Interrupts/diagnostics/status information | |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LED status display | POWER, HDD, ETHERNET 1, ETHERNET 2, PROFIBUS / MPI, SF PROFINET, WATCHDOG, TEMP, FAN, HDD0 ALARM, HDD1 ALARM |
| Integrated Functions | |
| Monitoring functions | |
| • Temperature monitoring | Yes |
| • Fan | Yes |
| • Monitoring function via network | Optional |
| Degree and class of protection | |
| 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 |
| Marine approval | |
| • Germanischer Lloyd (GL) | Yes; Only with SSD |
| • American Bureau of Shipping (ABS) | Yes; Only with SSD |
| • Bureau Veritas (BV) | Yes; Only with SSD |
| • Det Norske Veritas (DNV) | Yes; Only with SSD |
| • Lloyds Register of Shipping (LRS) | Yes; Only with SSD |
| 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 IEC 60068-2-6: 10 cycles, 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s ² (0.5 g) |
| Operating systems | |
| pre-installed operating system | Windows 7 Ultimate, multi-language (32-bit/64-bit), Windows 10 Enterprise 2015 LTSC, multi-language (64-bit), Windows 10 Enterprise 2016 LTSC, 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 | 88 mm; 2U |
| Depth | 444 mm |
| Approvals / Certificates | |
| General Product Approval | |



[Manufacturer Declaration](#)

[Miscellaneous](#)



General Product Approval



[BIS CRS](#)

[China RoHS](#)



EMV Maritime application



[NK / Nippon Kaiji Kyokai](#)

Maritime application Dangerous goods Environment



[CCS \(China Classification Society\)](#)

[KR \(Korean Register of Shipping\)](#)

[Dangerous goods information](#)

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