

SIMATIC IPC1047E (rack PC, 19", 4 U); 2x Gbit Ethernet, IPMI, RJ45; 1x VGA, 1x COM 1, 2x USB 3.0, 2x USB on the rear side; 2x USB 3.0 front; temperature and fan monitoring; SW RAID onboard; 2x Intel Xeon SP Silver 4216 16C/ 32T - 2.1 GHz/ 3.2 GHz; 1x SSD 1 TB M.2 NVMe and 2x HDD 4 TB 3.5" SATA (HW RAID 1); 128 GB 2933 MHz DDR4; without graphics card (VGA onboard); without plug-in cards; Windows Server 2022 - for Xeon Silver 4216 (32C) 860 W power supply unit with power supply cord USA; holder for 4x 3.5" SSD/HDD or 4x 2.5" SSD/HDD, in removable drive bay

| General information | |
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| Product type designation | IPC1047E |
| Installation type/mounting | |
| Mounting | For horizontal rack mounting |
| Design | Rack PC, 19", 4U |
| Supply voltage | |
| Type of supply voltage | 110/230V AC (autorange) 50/60 Hz |
| Line frequency | |
| <ul style="list-style-type: none"> Rated value 50 Hz Rated value 60 Hz | Yes Yes |
| Mains buffering | |
| <ul style="list-style-type: none"> Mains/voltage failure stored energy time | 20 ms |
| Processor | |
| Processor type | 2x Intel Xeon SP Silver 4210 10C/20T - 2.2 GHz/ 3.2 GHz; 2x Intel Xeon SP Silver 4216 16C/32T - 2.1 GHz/ 3.2 GHz; 2x Intel Xeon SP Gold 6226 12C/24T - 2.7 GHz/ 3.7 GHz; 2x Intel Xeon SP Gold 6230 20C/40T - 2.1 GHz/ 3.9 GHz |
| Chipset | Intel C621 |
| Graphic | |
| Graphics controller | Onboard VGA / 2D controller 1 920 × 1 200 @ 60 Hz 32 bpp |
| Graphics card | Yes; NVIDIA Quadro P620, RTX4000, RTX5000 and RTX A4000 |
| Drives | |
| Hard disk | 4 TB & 8 TB 3.5" SATA |
| SSD | Yes; 960 GB / 1.9 TB / 3.8 TB SATA SSD and 1 TB / 2 TB M.2 NVMe and 1.92 TB / 7.68 TB U.3 NVMe SSD |
| Slot for drives | 4x 3.5" HDD or 8x 2.5" SSD internal; 4x 3.5" HDD or 4x 2.5" SSD front changeable; 8x 2.5" SSD front changeable |
| Memory | |
| Main memory | 64 ... 512 GB |
| Capacity of main memory, max. | 2 Tbyte |
| Hardware configuration | |
| Slots | |
| <ul style="list-style-type: none"> free slots Number of PCI slots Number of PCI slots | 6x PCIe slots (2x PCIe x8 + 4x PCIe x16) 0 6 |
| Interfaces | |
| Interfaces/bus type | 2x 1 GB LAN (RJ45), COM1, IPMI, VGA |
| USB port | 2x front, 2x rear USB 3.0, 2x rear USB 2.0 |
| Connection for keyboard/mouse | USB |
| serial interface version | 1x COM |
| Multimedia | |
| <ul style="list-style-type: none"> Audio In/Out Microphone In | No No |
| Video interfaces | |
| <ul style="list-style-type: none"> Graphics interface | VGA, with optional graphics card 3x or 4x DP1.4 |
| Industrial Ethernet | |
| <ul style="list-style-type: none"> Industrial Ethernet interface — 100 Mbps | 2x Ethernet (RJ45) No |

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|--|---|-----------------------|
| — 1000 Mbps | Yes | |
| • number of interfaces (1 000 Mbps) | 2 | |
| Interrupts/diagnostics/status information | | |
| LED status display | POWER, HDD, FAN Fail | |
| Integrated Functions | | |
| Monitoring functions | | |
| • Temperature monitoring | Yes | |
| • Fan | Yes | |
| • Monitoring function via network | Yes (per IPMI) | |
| EMC | | |
| Interference immunity against discharge of static electricity | | |
| • Interference immunity against discharge of static electricity | ±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2 | |
| Degree and class of protection | | |
| IP (at the front) | IP30 | |
| IP (rear) | IP20 | |
| Standards, approvals, certificates | | |
| CE mark | Yes; Industry | |
| CSA approval | Yes; CAN/CSA-C22.2 No. 61010-2-201 Third Edition | |
| UL approval | Yes; UL 61010-2-201 Third Edition, File E115352 (I.T.E.) | |
| cULus | Yes; UL 61010-2-201 Third Edition; CAN/CSA-C22.2 No. 61010-2-201 Third Edition | |
| KC approval | Yes | |
| FCC | Yes | |
| EMC | EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 32 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3 | |
| 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. 10 °C/h (no condensation) | |
| • max. | 50 °C; Basic configuration (without graphics card) | |
| Ambient temperature during storage/transportation | | |
| • min. | -20 °C; Max. 20 °C/h (no condensation) | |
| • max. | 60 °C | |
| Relative humidity | | |
| • Relative humidity | permissible range for 0 to 31 °C: 5 ... 80 %; no condensation | |
| Vibrations | | |
| • Vibration resistance during operation acc. to IEC 60068-2-6 | 10 - 58 Hz: amplitude 0.0375 mm; 58 ... 200 Hz: acceleration 2 m/s ² | |
| Shock testing | | |
| • Shock load during operation | half-sine: acceleration 50 m/s ² , duration 30 ms | |
| Operating systems | | |
| pre-installed operating system | Windows 10 Enterprise LTSC 2019 or Windows 10 Enterprise LTSC 2021 or Windows Server 2019 or Windows Server 2022 | |
| Additional info on operating system | Multilingual User Interface (MUI): 5 languages (English, German, French, Spanish, Italian); 64 bit | |
| without operating system | Yes | |
| pre-installed operating system | | |
| • Windows 10 Enterprise | Yes; Windows 10 Enterprise LTSC 2019 or Windows 10 Enterprise LTSC 2021 | |
| Dimensions | | |
| Width | 430 mm | |
| Height | 176.6 mm; 4U | |
| Depth | 572 mm | |
| Classifications | | |
| | Version | Classification |
| 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 |

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| eClass | 7.1 | 19-20-01-02 |
| eClass | 6 | 19-20-01-02 |
| ETIM | 9 | EC001413 |
| ETIM | 8 | EC001413 |
| ETIM | 7 | EC001413 |

Approvals / Certificates

| | |
|--------------------------|-------------|
| General Product Approval | Environment |
|--------------------------|-------------|



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