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## Data sheet 6AG4104-5GA43-0AX0




SIMATIC IPC547J (rack PC, 19", 4 U); interfaces: 2x USB 3.0 on the front; COM1, audio on the rear side; 7 slots: 5x PCI Express, 2x PCI, temperature and fan monitoring; watchdog; card retainer Core i3-10100E (4C/8T, 3.2 (3.8) GHz, 6 MB cache), mainboard (chipset W480E, 3x Gbit Ethernet, 1x DVI-D, 2x DisplayPort, 6x USB 3.1 Gen.2, 2x USB 2.0 internal), 1 TB HDD 3.5 SATA, enclosure with drive support type A (for rack units on the front), painted, 100/240 V AC industrial power supply unit, power supply cable China, 4 GB DDR4 SDRAM (1x 4 GB), single channel; without expansion, without operating system, without expansions,

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| **General information** | |
| Product type designation | IPC547J |
| **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 |
| 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 | Intel Xeon W-1270E (8C/16T, 3.4 (4.8) GHz, 16 MB Cache); Intel Core i9-10900E (10C/20T, 2.8 (4.7) GHz, 20 MB Cache); Intel Core i7-10700E (8C/16T, 2.9 (4.5) GHz, 16 MB Cache); Intel Core i5-10500E (6C/12T, 3.1 (4.2) GHz, 12 MB Cache); Intel Core Core i3-10100E (4C/8T, 3.2 (3.8) GHz, 6 MB Cache) |
| Chipset | Intel W480E / Intel H410 |
| **Graphic** | |
| Graphics controller | Intel® UHD Graphics 630 |
| Graphics card | Yes; NVIDIA T400, Quadro RTX P2200, Quadro RTX 4000 |
| **Drives** | |
| Hard disk | 1 TB HDD 3.5" SATA, 2x 1 TB HDD 3.5" SATA, 1 TB HDD 3.5" SATA + 960 GB SSD 2.5" SATA, RAID1, 2x 1 TB HDD 3.5" SATA, RAID1, 2x 1 TB HDD [Enterprise] 3.5" SATA, RAID1, 2x 2 TB HDD [Enterprise] 3.5" SATA, RAID1, 2x 2 TB HDD [Enterprise] 3.5" SATA + 2 TB HDD [Enterprise] 3.5" SATA as hot spare, RAID1, 2x 2 TB HDD [Enterprise] 3.5" SATA + 960 GB SSD 2.5" SATA, RAID5, 3x 2 TB HDD [Enterprise] 3.5" SATA, RAID5, 3x 2 TB HDD [Enterprise] 3.5" SATA + 2 TB HDD [Enterprise] 3.5" SATA as hot spare |
| SSD | Yes; 480 GB 2.5" SATA SSD, 1x 960 GB 2.5" SATA SSD, 2x 480 GB 2.5" SATA SSD, RAID1 2x 480 GB 2.5" SATA SSD, RAID1 2x 960 GB 2.5" SATA SSD; 1x 512 GB M.2 NVMe SSD, 1x 1 024 GB M.2 NVMe SSD |
| Slot for drives | Mounting internally in vibration/shock-absorbing drive cage Type B or mounting on the front in removable trays (hot swap in RAID configurations) in drive cage Type A; mounting internally on the fixed drive cage optional |
| **Storage** | |
| Main memory | 4 GB to 128 GB DDR4 2933 SDRAM DIMM |
| Capacity of main memory, max. | 128 Gbyte |
| **Hardware configuration** | |
| Slots | |
| ● Number of PCI slots | 2 |
| ● Number of PCI slots | 5 |
| **Interfaces** | |
| Interfaces/bus type | mainboard (H410 chip set): 2x Intel Gigabit Ethernet (RJ45, teaming-capable), USB 3.1 Gen 1: 2x on rear, 2x on front, USB 2.0: 4x on rear, 1x internal e.g. for software dongle with optional interlock, 1x DisplayPort V1.2, 1x DVI-D, 1x COM1, audio: line in, line out, micro; mainboard (W480E chip set): 3x Intel Gigabit Ethernet (RJ45, teaming-capable), USB 3.1 Gen 2: 4x type A, 2x type C, on rear, USB 3.1 Gen 1: 2x on front, USB 2.0: 2x internal e.g. for software |


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|---|---|
| | dongle with optional interlock, 2x DisplayPort V1.2, 1x DVI-D, 1x COM1, audio: line in, line out, micro |
| serial interface | COM1: 1x RS 232 or RS 485; COM2 (optional) 1x RS 232 |
| Video interfaces | |
| ● Graphics interface | 2x DisplayPort and 1x DVI-D onboard; 1x VGA via DP-VGA adapter cable (optional); graphics card PCIe (x16), Triple Head (3x mini DisplayPort, 2 GB graphics memory, 3x mini DisplayPort to DisplayPort adapter cable) (optional) |
| Industrial Ethernet | |
| ● Industrial Ethernet interface | |
| — 100 Mbps | Yes |
| — 1000 Mbps | Yes |
| **Interrupts/diagnostics/status information** | |
| LED status display | POWER, HDD, ETHERNET 1, ETHERNET 2, ETHERNET 3, WATCHDOG, TEMP, FAN, HDD3 ALARM, HDD2 ALARM, HDD1 ALARM, HDD0 ALARM |
| **Integrated Functions** | |
| Monitoring functions | |
| ● Temperature monitoring | Yes |
| ● Fan | Yes |
| ● Monitoring function via network | Optional |
| **Degree and class of protection** | |
| IP (at the front) | IP30 |
| IP (rear) | IP20 |
| **Standards, approvals, certificates** | |
| Siemens Eco Profile (SEP) | Siemens EcoTech |
| 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; CAN/CSA-C22.2 No. 61010-2-201 Second Edition |
| UL approval | UL 61010-2-201 Second Edition, File E85972 |
| cULus | Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition |
| 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 |
| Ecological footprint | |
| ● environmental product declaration | Yes |
| Global warming potential | |
| — global warming potential, (total) [CO2 eq] | 1 910 kg |
| — global warming potential, (during production) [CO2 eq] | 225 kg |
| — global warming potential, (during operation) [CO2 eq] | 1 740 kg |
| — global warming potential, (after end of life cycle) [CO2 eq] | -55.5 kg |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | 0 °C; Max. 10 °C/h (no condensation) |
| ● max. | 40 °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; 20 to 58 Hz: 0.015 mm; 58 to 200 Hz: 2 m/s² (0.2 g) |
| **Operating systems** | |
| pre-installed operating system | Windows 10 IoT Enterprise 2021 LTSC, Windows 10 IoT Enterprise 2019 LTSC; Windows Server 2022 Standard Edition incl. 5 clients; Windows Server 2019 Standard Edition incl. 5 clients |
| without operating system | Yes |
| **Dimensions** | |
| Width | 430 mm |


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|---|---|
| Height | 177 mm; 4U |
| Depth | 446 mm; Device with short enclosure: 356 mm |

## Approvals / Certificates

### General Product Approval

Manufacturer Declaration

### General Product Approval

BIS CRS

### Dangerous goods

Dangerous goods information

### Dangerous goods

Test Summary Report UN 38.3

### Environment

Environmental Confirmations

Environmental Confirmations

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