

**Siemens  
EcoTech**



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 Xeon W-1270E (8C/16T, 3.4 (4.8) GHz, 16 MB cache), mainboard (chipset W480E, 3x Gbit Ethernet, 1x DVI-D, 2x DisplayPort, 6x USB 3.1 Gen.2, 2x USB 2.0 internal, AMT), 2x 1 TB HDD 3.5 SATA, enclosure with drive support type A (for rack units on the front), blue chromated, 100/240 V AC industrial power supply unit, power supply cable USA, 64 GB DDR4 SDRAM (2x 32 GB), dual channel, 1024 GB SSD M.2 NVMe (M.2 slots occupied) (for operating system) (only with W480E chipset), Windows 10 IoT Enterprise 2021 LTSC MUI (en/de/fr/it/es), 64-bit for Core i7/i9/Xeon, without expansions,

| 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                                                                                                                                                                                                                                                                               |
| Memory                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Main memory                                | 4 GB to 128 GB DDR4 2933 SDRAM DIMM                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Capacity of main memory, max.              | 128 Gbyte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Hardware configuration                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Slots                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| • free slots                               | 7 spare slots for expansions (all long); mainboard with H410 chip set: 1x PCIe (x16) (16 lane) Gen 3, 1x PCIe (x16) (1 lanes) Gen 3, 1x PCIe (x8) (1 lane) Gen 3, 1x PCIe (x4) (1 lane) Gen 3, 1x PCIe (x4) (1 lane) Gen 3, 2x PCI; mainboard with W480E chip set: 1x PCIe (x16) (16 lane) Gen 3, 1x PCIe (x16) (4 lanes) Gen 3, 1x PCIe (x8) (1 lane) Gen 3, 1x PCIe (x4) (4 lane) Gen 3, 1x PCIe (x4) (1 lane) Gen 3, 2x PCI                                                                            |
| • 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 dongle with optional interlock, 2x DisplayPort V1.2, 1x DVI-D, 1x COM1, audio: line in, line out, micro |
| USB port                                                                        | mainboard (H410 chip set): 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; mainboard (W480E chip set): 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 dongle with optional interlock                                                                                                                                                                                                                                                         |
| Connection for keyboard/mouse                                                   | USB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| serial interface version                                                        | COM1: 1x RS 232 or RS 485; COM2 (optional) 1x RS 232                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Multimedia                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| • Audio In/Out                                                                  | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| • Microphone In                                                                 | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 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                                                 | 2x or 3x Gigabit Ethernet (IE/PN), RJ45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| — 100 Mbps                                                                      | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| — 1000 Mbps                                                                     | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Interrupts/diagnostics/status information</b>                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| LED status display                                                              | POWER, HDD, ETHERNET 1, ETHERNET 2, ETHERNET 3, WATCHDOG, TEMP, FAN, HDD3 ALARM, HDD2 ALARM, HDD1 ALARM, HDD0 ALARM                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Integrated Functions</b>                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Monitoring functions                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| • Temperature monitoring                                                        | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| • Watchdog                                                                      | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| • Fan                                                                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| • Monitoring function via network                                               | Optional                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>EMC</b>                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Interference immunity against high-frequency electromagnetic fields             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| • Interference immunity against high frequency radiation                        | 10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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                             | 30 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, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Compliance with line harmonic distortion limits                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| • Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3 | Yes; EN 61000-3-2 Class D; EN 61000-3-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Degree and class of protection</b>                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| IP (at the front)                                                               | IP30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| IP (rear)                                                                       | IP20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Standards, approvals, certificates</b>                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                          |

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|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                  |
| EMC                                                            | EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 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                                                                                                            |
| <b>Ecological footprint</b>                                    |                                                                                                                                                                                      |
| • environmental product declaration                            | Yes                                                                                                                                                                                  |
| <b>Global warming potential</b>                                |                                                                                                                                                                                      |
| — 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                                                                                                                                                                             |
| <b>Ambient conditions</b>                                      |                                                                                                                                                                                      |
| <b>Ambient temperature during operation</b>                    |                                                                                                                                                                                      |
| • min.                                                         | 0 °C; Max. 10 °C/h (no condensation)                                                                                                                                                 |
| • max.                                                         | 40 °C                                                                                                                                                                                |
| <b>Ambient temperature during storage/transportation</b>       |                                                                                                                                                                                      |
| • min.                                                         | -20 °C                                                                                                                                                                               |
| • max.                                                         | 60 °C                                                                                                                                                                                |
| <b>Relative humidity</b>                                       |                                                                                                                                                                                      |
| • Relative humidity                                            | Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)              |
| <b>Vibrations</b>                                              |                                                                                                                                                                                      |
| • 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)                                                                                    |
| <b>Shock testing</b>                                           |                                                                                                                                                                                      |
| • Shock load during operation                                  | Tested according to IEC 60068-2-27; half-sine: 9.8 m/s² (1 g), 20 ms, 100 shocks per axis                                                                                            |
| <b>Operating systems</b>                                       |                                                                                                                                                                                      |
| 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 |
| Additional info on operating system                            | Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)                                                                                         |
| without operating system                                       | Yes                                                                                                                                                                                  |
| <b>Software</b>                                                |                                                                                                                                                                                      |
| SIMATIC Software                                               | Optional package with SIMATIC WinCC                                                                                                                                                  |
| <b>Dimensions</b>                                              |                                                                                                                                                                                      |
| Width                                                          | 430 mm                                                                                                                                                                               |
| Height                                                         | 177 mm; 4U                                                                                                                                                                           |
| Depth                                                          | 446 mm; Device with short enclosure: 356 mm                                                                                                                                          |
| <b>Approvals / Certificates</b>                                |                                                                                                                                                                                      |
| <b>General Product Approval</b>                                |                                                                                                                                                                                      |



[Manufacturer Declaration](#)



|                                             |                                                                                       |
|---------------------------------------------|---------------------------------------------------------------------------------------|
| <b>General Product Approval</b>             | <b>Environment</b>                                                                    |
| <a href="#">BIS CRS</a>                     | <a href="#">KC</a>                                                                    |
| <a href="#">Environmental Conformations</a> |    |
|                                             |  |

