

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 Core i7-10700E (8C/16T, 2.9 (4.5) GHz, 16 MB cache); mainboard (chipset H410, 2x Gbit Ethernet, 1x DVI-D, 1x DisplayPort, 4x USB 2.0, 2x USB 3.1 Gen. 1, 1x USB 2.0 internal); 1 TB HDD 3.5 SATA and 960 GB SSD 2.5 SATA (for operating system, if M.2 SSD not ordered), enclosure (short) with drive support type C (for internal installation/ 0.2 g vibration, 2 g shock), blue chromated, 100/240 V AC industrial power supply unit, power supply cable China, 32 GB DDR4 SDRAM (2x 16 GB), dual channel, PCIe x16 graphics card NVIDIA Quadro T400 (3x mDP: 3x adapter mDP to DP) (1 slot occupied), Windows 10 IoT Enterprise 2019 LTSC MUI (en/de/fr/it/es), 64 bit for Core i7/i9/Xeon, SIMATIC IPC DiagMonitor and Image & Partition Creator enclosed,

| 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 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                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Video interfaces</b>                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>Graphics interface</li> </ul>                                                                                               | 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)                                                                                                                                                                                           |
| <b>Industrial Ethernet</b>                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>Industrial Ethernet interface <ul style="list-style-type: none"> <li>— 100 Mbps</li> <li>— 1000 Mbps</li> </ul> </li> </ul> | Yes<br>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>                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Monitoring functions</b>                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>Temperature monitoring</li> <li>Fan</li> <li>Monitoring function via network</li> </ul>                                     | Yes<br>Yes<br>Optional                                                                                                                                                                                                                                                                                                                                                                                                    |
| <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)                                                                                                                                                                                                                                          |
| 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                                                                                                                                                                                                                                                                                                                                                 |
| <b>Ecological footprint</b>                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>environmental product declaration</li> </ul>                                                                                | 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>                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>min.</li> <li>max.</li> </ul>                                                                                               | 0 °C; Max. 10 °C/h (no condensation)<br>40 °C                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Ambient temperature during storage/transportation</b>                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>min.</li> <li>max.</li> </ul>                                                                                               | -20 °C<br>60 °C                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Vibrations</b>                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>Vibration resistance during operation acc. to IEC 60068-2-6</li> </ul>                                                      | 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>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                                                                                                                                                                                                                                      |
| without operating system                                                                                                                                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Dimensions               |                                             |
|--------------------------|---------------------------------------------|
| Width                    | 430 mm                                      |
| Height                   | 177 mm; 4U                                  |
| Depth                    | 446 mm; Device with short enclosure: 356 mm |
| Approvals / Certificates |                                             |
| General Product Approval |                                             |



| General Product Approval |                         |    |               | Dangerous goods |                                             |
|--------------------------|-------------------------|----|---------------|-----------------|---------------------------------------------|
| EAC                      | <a href="#">BIS CRS</a> | KC | CE (EG-Konf.) | UKCA            | <a href="#">Dangerous goods information</a> |

| Dangerous goods                             |                                             | Environment |                 |  |                                             |
|---------------------------------------------|---------------------------------------------|-------------|-----------------|--|---------------------------------------------|
| <a href="#">Test Summary Report UN 38.3</a> | <a href="#">Environmental Confirmations</a> | EPD         | Siemens EcoTech |  | <a href="#">Environmental Confirmations</a> |

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