





SIMATIC IPC847E (Rack PC, 19", 4HU); 3x Gbit Ethernet (IE/PN), RJ45; 1x DVI-D; 2x display ports; 1x COM 1; audio, 4x USB 3.1, 2x USB 3.1 (Type C) on the rear side; 2x USB 3.0 on the front; 1x USB 3.1 internal, temperature and fan monitoring; Watchdog, card retainer Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, TB, VT-D, AMT); Board 11 slots: 3x PCI, 1x PCIe x16 (16 L), 3x PCIe x16 (4 L), 2x PCIe x16 (1 L); 2x PCIe x4 (4 L); 960 GB SSD 2.5" SATA; Enclosure with drive support Type A (for trays on the front); COM2 interface; 2x 100/240V AC redundant industrial power supply unit; 64 GB DDR4 SDRAM (4x 16 GB), Dual Channel; PCIe x4 adapter card for M.2 NVMe module without SSD (1 slot occupied) and PCIe x16 graphics card (3x mDP: 3x adapter mDP to DP) (1 slot occupied) Windows 10 Enterprise 2016 LTSB, MUI (de, en, fr, es, it, es), 64 bit (for Core i7/Xeon); SIMATIC PC Image&Partition Creator software enclosed; Power supply cable China

| General information  |   |
|--|---|
| Product type designation   | IPC847E   |
| 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   |   |
| <ul style="list-style-type: none"> <li>Rated value 50 Hz</li> <li>Rated value 60 Hz</li> </ul> | Yes<br>Yes  |
| Mains buffering  |   |
| <ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>     | 20 ms   |
| Processor  |   |
| Processor type   | Intel Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB Cache, Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Xeon E-2176G (6C/12T, 3.7 (4.7) GHz, 12 MB Cache, Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB Cache, Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB Cache, Turbo Boost 2.0, VT-x/-d-Technology, iAMT); Intel Core i3-8100 (4C/4T, 3.6 GHz, 6 MB Cache, VT-x/-d-Technology)  |
| Chipset  | Intel C246  |
| Graphic  |   |
| Graphics controller  | Onboard Intel UHD graphics P630/630 integrated in processor; graphics card NVIDIA Quadro P400 PCIe (x16) triple head (optional)   |
| Drives   |   |
| Hard disk  | 1x 1 TB 3.5" SATA HDD, 2x 1 TB 3.5" SATA HDD, RAID1 2x 1 TB 3.5" SATA HDD, RAID1 2x 1 TB 3.5" SATA HDD (Enterprise), RAID1 2x 2 TB 3.5" SATA HDD (Enterprise), RAID1 2x 2 TB 3.5" SATA HDD (Enterprise) + 2 TB 3.5" SATA HDD (Enterprise) as hot spare, RAID5 3x 2 TB 3.5" SATA HDD (Enterprise), RAID5 3x 2 TB 3.5" SATA HDD (Enterprise) + 2 TB 3.5" SATA HDD (Enterprise) as hot spare, RAID1 2x 2 TB 3.5" SAS HDD (Enterprise) with PCIe x8 RAID controller incl. ZMCP module, RAID5 3x 2 TB 3.5" SAS HDD (Enterprise) with PCIe x8 RAID controller incl. ZMCP module |
| SSD  | Yes; 1x 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; 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 2666 SDRAM DIMM, ECC optional   |
| Capacity of main memory, max.  | 128 Gbyte   |
| Interfaces   |   |
| Interfaces/bus type  | 1x COM1, 1x COM2 (optional), 2x DisplayPort, 1x DVI-D, audio (microphone in, line in, line out), 9x USB, 3x Gigabit Ethernet  |
| serial interface   | COM1: 1x RS 232, COM2 (optional): 1x RS 232   |

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| <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>      | <p>Yes</p> <p>Yes</p>  |
| <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>  | <p>Yes</p> <p>Yes</p> <p>Optional</p>  |
| <b>Degree and class of protection</b>   |  |
| IP (at the front)   | IP41   |
| IP (rear)   | IP20   |
| <b>Standards, approvals, certificates</b>   |  |
| 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   | Yes; 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>Ambient conditions</b>   |  |
| <b>Ambient temperature during operation</b>   |  |
| <ul style="list-style-type: none"> <li>min.</li> <li>max.</li> </ul>  | <p>0 °C; Max. 10 °C/h (no condensation)</p> <p>50 °C</p>   |
| <b>Ambient temperature during storage/transportation</b>  |  |
| <ul style="list-style-type: none"> <li>min.</li> <li>max.</li> </ul>  | <p>-20 °C; Max. 20 °C/h (no condensation)</p> <p>60 °C</p>   |
| <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, 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s <sup>2</sup> (0.5 g)   |
| <b>Operating systems</b>  |  |
| pre-installed operating system  | Windows 10 Enterprise 2016 LTSB, multi-language (64-bit); Windows 10 IoT Enterprise 2019 LTSC, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 multi-language clients (64-bit); Windows Server 2019 Standard Edition incl. 5 multi-language clients (64-bit) |
| without operating system  | Yes  |
| <b>Dimensions</b>   |  |
| Width   | 430 mm   |
| Height  | 177 mm; 4U   |
| Depth   | 444 mm   |
| <b>Approvals / Certificates</b>   |  |
| <b>General Product Approval</b>   |  |
|   | <a href="#">Manufacturer Declaration</a>     |
|   | <a href="#">Miscellaneous</a>  |
| <b>General Product Approval</b>   |  |



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