

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 Xeon E-2278GE (8C/16T, 3.3 (4.7) GHz, 16 MB cache, TB, VT-d, AMT); board 9 slots: 7x PCI, 2x PCIe x16 (8 L); RAID5, 3x 4 TB HDD (Enterprise) 3.5" SATA; Enclosure with drive support Type B (for internal installation/ 0.5 g vibration, 5 g shock); 100/240 V AC industrial power supply unit; 32 GB DDR4 SDRAM (2x 16 GB), Dual Channel; 512 GB SSD M.2 NVMe to PCIe x4 adapter card (1 slot occupied); (for operating system); Windows 10 IoT Enterprise 2019 LTSC MUI (de, en, fr, it, es), 64-bit (for Core i7/Xeon); Without expansions; 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                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| • 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 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) + 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                                                                                                                                                                                                                                                                                                     |
| Storage                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Video interfaces                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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| • 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)                                                    |
| <b>Industrial Ethernet</b>                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                    |
| • Industrial Ethernet interface                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                    |
| — 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>                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                    |
| <b>Monitoring functions</b>                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                    |
| • Temperature monitoring                                                                                                                                                                                                                                                                                                                                                                                                              | Yes                                                                                                                                                                                                                                                                                |
| • Fan                                                                                                                                                                                                                                                                                                                                                                                                                                 | Yes                                                                                                                                                                                                                                                                                |
| • Monitoring function via network                                                                                                                                                                                                                                                                                                                                                                                                     | Optional                                                                                                                                                                                                                                                                           |
| <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>                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                    |
| • min.                                                                                                                                                                                                                                                                                                                                                                                                                                | 0 °C; Max. 10 °C/h (no condensation)                                                                                                                                                                                                                                               |
| • max.                                                                                                                                                                                                                                                                                                                                                                                                                                | 50 °C                                                                                                                                                                                                                                                                              |
| <b>Ambient temperature during storage/transportation</b>                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                    |
| • min.                                                                                                                                                                                                                                                                                                                                                                                                                                | -20 °C; Max. 20 °C/h (no condensation)                                                                                                                                                                                                                                             |
| • max.                                                                                                                                                                                                                                                                                                                                                                                                                                | 60 °C                                                                                                                                                                                                                                                                              |
| <b>Vibrations</b>                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                    |
| • Vibration resistance during operation acc. to IEC 60068-2-6                                                                                                                                                                                                                                                                                                                                                                         | 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 LTSC, 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>                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                    |
| <div>   <a href="#">Manufacturer Declaration</a>   <a href="#">Miscellaneous</a> </div> |                                                                                                                                                                                                                                                                                    |
| <b>General Product Approval</b>                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                    |



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