

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 i5-8500 (6C/6T, 3.0 (4.1) GHz, 9 MB cache, TB, VT-d, AMT); Board 9 slots: 7x PCI, 2x PCIe x16 (8 L); 1 TB HDD 3.5" SATA and 480 GB SSD 2.5" SATA; (for operating system, if M.2 SSD not ordered); Enclosure with drive support Type A (for trays on the front); COM2 interface; 100/240 V AC industrial power supply unit; 8 GB DDR4 SDRAM (2x 4 GB), Dual Channel; Without extension (HW); Windows10 Enterprise 2016 LTSB, MUI (de, en, fr, it, es), 64-bit (for Core i3/i5); with TPM 2.0; Without power supply cable

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), 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	
• Graphics interface	2x DisplayPort and 1x DVI-D onboard; 1x VGA via DP-VGA adapter cable

		(optional); graphics card PCIe (x16), Triple Head (3x mini DisplayPort, 2 GB graphics memory, 3x mini DisplayPort to DisplayPort adapter cable) (optional)	
Industrial Ethernet			
<ul style="list-style-type: none">Industrial Ethernet interface<ul style="list-style-type: none">— 100 Mbps— 1000 Mbps		Yes	
		Yes	
Interrupts/diagnostics/status information			
LED status display		POWER, HDD, ETHERNET 1, ETHERNET 2, ETHERNET 3, WATCHDOG, TEMP, FAN, HDD3 ALARM, HDD2 ALARM, HDD1 ALARM, HDD0 ALARM	
Integrated Functions			
Monitoring functions			
<ul style="list-style-type: none">Temperature monitoring		Yes	
<ul style="list-style-type: none">Fan		Yes	
<ul style="list-style-type: none">Monitoring function via network		Optional	
Degree and class of protection			
IP (at the front)		IP41	
IP (rear)		IP20	
Standards, approvals, certificates			
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	
Ambient conditions			
Ambient temperature during operation			
<ul style="list-style-type: none">min.		0 °C; Max. 10 °C/h (no condensation)	
<ul style="list-style-type: none">max.		50 °C	
Ambient temperature during storage/transportation			
<ul style="list-style-type: none">min.		-20 °C; Max. 20 °C/h (no condensation)	
<ul style="list-style-type: none">max.		60 °C	
Vibrations			
<ul style="list-style-type: none">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/s² (0.5 g)	
Operating systems			
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	
Dimensions			
Width		430 mm	
Height		177 mm; 4U	
Depth		444 mm	
Classifications			
		Version	Classification
eClass		16	19-20-01-02
eClass		14	19-20-01-02
eClass		12	19-20-01-02
eClass		9.1	19-20-01-02
eClass		9	19-20-01-02
eClass		8	19-20-01-02
eClass		7.1	19-20-01-02
eClass		6	19-20-01-02

ETIM	10	EC001413
ETIM	9	EC001413
ETIM	8	EC001413
ETIM	7	EC001413

Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)


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General Product Approval



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last modified:

6/10/2026 