

SIMATIC IPC1047E (rack PC, 19", 4 U); 2x Gbit Ethernet, IPMI, RJ45; 1x VGA, 1x COM 1, 2x USB 3.0, 2x USB on the rear side; 2x USB 3.0 front; temperature and fan monitoring; SW RAID onboard; 2x Intel Xeon SP Silver 4216 16C/ 32T - 2.1 GHz/ 3.2 GHz; 1x SSD 1 TB M.2 NVMe and 2x HDD 4 TB 3.5" SATA (HW RAID 1); 64 GB 2933 MHz DDR4; 1x Nvidia Quadro P620 (1x PCIe x16 occupied); without plug-in cards; Windows Server 2019, for Xeon Silver 4216 (32C); 700 W power supply unit redundant with power supply cord Europe; holder for 4x 3.5" SSD/HDD or 4x 2.5" SSD/HDD, in removable drive bay

General information	
Product type designation	IPC1047E
Installation type/mounting	
Mounting	For horizontal rack mounting
Design	Rack PC, 19", 4U
Supply voltage	
Type of supply voltage	110/230V AC (autorange) 50/60 Hz
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	2x Intel Xeon SP Silver 4210 10C/20T - 2.2 GHz/ 3.2 GHz; 2x Intel Xeon SP Silver 4216 16C/32T - 2.1 GHz/ 3.2 GHz; 2x Intel Xeon SP Gold 6226 12C/24T - 2.7 GHz/ 3.7 GHz; 2x Intel Xeon SP Gold 6230 20C/40T - 2.1 GHz/ 3.9 GHz
Chipset	Intel C621
Graphic	
Graphics controller	Onboard VGA / 2D controller 1 920 × 1 200 @ 60 Hz 32 bpp
Graphics card	Yes; NVIDIA Quadro P620, RTX4000, RTX5000 and RTX A4000
Drives	
Hard disk	4 TB & 8 TB 3.5" SATA
SSD	Yes; 960 GB / 1.9 TB / 3.8 TB SATA SSD and 1 TB / 2 TB M.2 NVMe and 1.92 TB / 7.68 TB U.3 NVMe SSD
Slot for drives	4x 3.5" HDD or 8x 2.5" SSD internal; 4x 3.5" HDD or 4x 2.5" SSD front changeable; 8x 2.5" SSD front changeable
Memory	
Main memory	64 ... 512 GB
Capacity of main memory, max.	2 Tbyte
Hardware configuration	
Slots	
• free slots	6x PCIe slots (2x PCIe x8 + 4x PCIe x16)
• Number of PCI slots	0
• Number of PCI slots	6
Interfaces	
Interfaces/bus type	2x 1 GB LAN (RJ45), COM1, IPMI, VGA
USB port	2x front, 2x rear USB 3.0, 2x rear USB 2.0
Connection for keyboard/mouse	USB
serial interface version	1x COM
Multimedia	
• Audio In/Out	No
• Microphone In	No
Video interfaces	
• Graphics interface	VGA, with optional graphics card 3x or 4x DP1.4
Industrial Ethernet	
• Industrial Ethernet interface	2x Ethernet (RJ45)
— 100 Mbps	No

— 1000 Mbps	Yes
• number of interfaces (1 000 Mbps)	2
Interrupts/diagnostics/status information	
LED status display	POWER, HDD, FAN Fail
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Fan	Yes
• Monitoring function via network	Yes (per IPMI)
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Degree and class of protection	
IP (at the front)	IP30
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes; Industry
CSA approval	Yes; CAN/CSA-C22.2 No. 61010-2-201 Third Edition
UL approval	Yes; UL 61010-2-201 Third Edition, File E115352 (I.T.E.)
cULus	Yes; UL 61010-2-201 Third Edition; CAN/CSA-C22.2 No. 61010-2-201 Third Edition
KC approval	Yes
FCC	Yes
EMC	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 32 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3
Dust protection	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered
Ecological footprint	
• environmental product declaration	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	4 270 kg
— global warming potential, (during production) [CO2 eq]	302 kg
— global warming potential, (during operation) [CO2 eq]	4 030 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-67.5 kg
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C; Max. 10 °C/h (no condensation)
• max.	50 °C; Basic configuration (without graphics card)
Ambient temperature during storage/transportation	
• min.	-20 °C; Max. 20 °C/h (no condensation)
• max.	60 °C
Relative humidity	
• Relative humidity	permissible range for 0 to 31 °C: 5 ... 80 %; no condensation
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	10 - 58 Hz: amplitude 0.0375 mm; 58 ... 200 Hz: acceleration 2 m/s ²
Shock testing	
• Shock load during operation	half-sine: acceleration 50 m/s ² , duration 30 ms
Operating systems	
pre-installed operating system	Windows 10 Enterprise LTSC 2019 or Windows 10 Enterprise LTSC 2021 or Windows Server 2019 or Windows Server 2022
Additional info on operating system	Multilingual User Interface (MUI): 5 languages (English, German, French, Spanish, Italian); 64 bit
without operating system	Yes
pre-installed operating system	
• Windows 10 Enterprise	Yes; Windows 10 Enterprise LTSC 2019 or Windows 10 Enterprise LTSC 2021
Dimensions	
Width	430 mm
Height	176.6 mm; 4U
Depth	572 mm

General Product Approval	Environment
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