

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 Gold 6230 40T - 2.1 GHz/ 3.9 GHz; 1x SSD 1 TB M.2 NVMe; 64 GB 2933 MHz DDR4; 1x Nvidia Quadro RTX4000 (1x PCIe x16 occupied); Intel X710-T2L (2x 10 GB LAN) Windows Server 2019, for Xeon Gold 6230 (40C); 700 W power supply unit redundant with power supply cord Europe; holder for 4x 3.5" SSD/HDD or 8x 2.5" SSD/HDD, internal

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	
<ul style="list-style-type: none"> <li>Rated value 50 Hz</li> <li>Rated value 60 Hz</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> <li>Yes</li> </ul>
Mains buffering	
<ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>	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	
<ul style="list-style-type: none"> <li>free slots</li> <li>Number of PCI slots</li> <li>Number of PCI slots</li> </ul>	<ul style="list-style-type: none"> <li>6x PCIe slots (2x PCIe x8 + 4x PCIe x16)</li> <li>0</li> <li>6</li> </ul>
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	
<ul style="list-style-type: none"> <li>Audio In/Out</li> <li>Microphone In</li> </ul>	<ul style="list-style-type: none"> <li>No</li> <li>No</li> </ul>
Video interfaces	
<ul style="list-style-type: none"> <li>Graphics interface</li> </ul>	VGA, with optional graphics card 3x or 4x DP1.4
Industrial Ethernet	
<ul style="list-style-type: none"> <li>Industrial Ethernet interface                             <ul style="list-style-type: none"> <li>— 100 Mbps</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>2x Ethernet (RJ45)</li> <li>No</li> </ul>

— 1000 Mbps	Yes
• number of interfaces (1 000 Mbps)	2
<b>Interrupts/diagnostics/status information</b>	
LED status display	POWER, HDD, FAN Fail
<b>Integrated Functions</b>	
<b>Monitoring functions</b>	
• Temperature monitoring	Yes
• Fan	Yes
• Monitoring function via network	Yes (per IPMI)
<b>EMC</b>	
<b>Interference immunity against discharge of static electricity</b>	
• 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
<b>Degree and class of protection</b>	
IP (at the front)	IP30
IP (rear)	IP20
<b>Standards, approvals, certificates</b>	
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
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
• min.	0 °C; Max. 10 °C/h (no condensation)
• max.	50 °C; Basic configuration (without graphics card)
<b>Ambient temperature during storage/transportation</b>	
• min.	-20 °C; Max. 20 °C/h (no condensation)
• max.	60 °C
<b>Relative humidity</b>	
• Relative humidity	permissible range for 0 to 31 °C: 5 ... 80 %; no condensation
<b>Vibrations</b>	
• Vibration resistance during operation acc. to IEC 60068-2-6	10 - 58 Hz: amplitude 0.0375 mm; 58 ... 200 Hz: acceleration 2 m/s <sup>2</sup>
<b>Shock testing</b>	
• Shock load during operation	half-sine: acceleration 50 m/s <sup>2</sup> , duration 30 ms
<b>Operating systems</b>	
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
<b>Dimensions</b>	
Width	430 mm
Height	176.6 mm; 4U
Depth	572 mm
<b>last modified:</b>	1/13/2025 