

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 and 4x SSD 3.8 TB 2.5" SATA (HW RAID 5 and hot spare); 512 GB 2933 MHz DDR4 1x Nvidia Quadro RTX4000 (1x PCIe x16 occupied); Intel I350-T2 (2x 1 GB LAN); without operating system; 700 W power supply unit redundant without power supply cord; holder for 4x 3.5" SSD/HDD or 4x 2.5" SSD/HDD, in removable drive bay

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
Drives	
Optical drives	No
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
Slot for drives	4x 3.5" HDD or 8x 2.5" SSD internal; 4x 3.5" HDD or 4x 2.5" SSD front changeable
Memory	
Type of memory	DDR4-SDRAM DIMM
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
• Number of compact flash slots	0
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	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	Yes
— 1000 Mbps	Yes
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Status LEDs	POWER, HDD, FAN Fail
• 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	No; In application process
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
Ambient conditions	
Ambient temperature during operation	
• Ambient temperature during operation	0 °C to +40 °C with maximum configuration, up to +50 °C with basic configuration
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
• Operation, max.	80 %
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	Yes
Additional info on operating system	Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)
without operating system	Yes
pre-installed operating system	
• Windows XP Professional	No
• Windows 7	No
• Windows 8	No
• Windows 10	No
• Windows 10 Enterprise	Yes; Windows 10 Enterprise 2019 LTSC
Dimensions	
Width	430 mm
Height	176.6 mm; 4U
Depth	572 mm
last modified:	12/13/2022 