

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 HDD 8 TB 3.5" SATA (HW RAID 5 and hot spare) 64 GB 2933 MHz DDR4; without graphics card (VGA onboard); without plug-in cards; 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

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"> Rated value 50 Hz Rated value 60 Hz 	Yes Yes
Mains buffering	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> free slots Number of PCI slots Number of PCI slots Number of compact flash slots 	6x PCIe slots (2x PCIe X8 + 4x PCIe X16) 0 6 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	
<ul style="list-style-type: none"> Audio In/Out Microphone In 	No No
Video interfaces	
<ul style="list-style-type: none"> Graphics interface 	VGA, with optional graphics card 3x or 4x DP1.4
Industrial Ethernet	
<ul style="list-style-type: none"> Industrial Ethernet interface <ul style="list-style-type: none"> 100 Mbps 1000 Mbps 	2x Ethernet (RJ45) Yes Yes

Integrated Functions	
Monitoring functions	
<ul style="list-style-type: none"> • Temperature monitoring • Status LEDs • Fan • Monitoring function via network 	Yes POWER, HDD, FAN Fail Yes Yes (per IPMI)
EMC	
Interference immunity against discharge of static electricity	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • min. • max. 	0 °C; Max. 10 °C/h (no condensation) 50 °C; Basic configuration (without graphics card)
Ambient temperature during storage/transportation	
<ul style="list-style-type: none"> • min. • max. 	-20 °C; Max. 20 °C/h (no condensation) 60 °C
Relative humidity	
<ul style="list-style-type: none"> • Relative humidity • Operation, max. 	permissible range for 0 to 31 °C: 5 ... 80 %; no condensation 80 %
Vibrations	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • Windows XP Professional • Windows 7 • Windows 8 • Windows 10 • Windows 10 Enterprise 	No No No No Yes; Windows 10 Enterprise 2019 LTSC
Dimensions	
Width	430 mm
Height	176.6 mm; 4U
Depth	572 mm

last modified:

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