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Data sheet 6BK1801-1AA10-0AB0

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 4210 10C/ 20T - 2.2 GHz/ 3.2 GHz; 1x SSD 1 TB M.2 NVMe; 128 GB 2933 MHz DDR4; without graphics card (VGA onboard); without plug-in cards; without operating system; 860 W power supply unit 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	
● 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
Storage	
Main memory	64 ... 512 GB
Capacity of main memory, max.	2 Tbyte
Hardware configuration	
Slots	
● Number of PCI slots	0
● Number of PCI slots	6
Interfaces	
Interfaces/bus type	2x 1 GB LAN (RJ45), COM1, IPMI, VGA
serial interface	1x COM
Video interfaces	
● Graphics interface	VGA, with optional graphics card 3x or 4x DP1.4
Industrial Ethernet	
● Industrial Ethernet interface	
— 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	

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Monitoring functions	
● Temperature monitoring	Yes
● Fan	Yes
● Monitoring function via network	Yes (per IPMI)
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
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
Vibrations	
● Vibration resistance during operation acc. to IEC 60068-2-6	10 - 58 Hz: amplitude 0.0375 mm; 58 ... 200 Hz: acceleration 2 m/s²
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
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	176.59999 mm; 4U
Depth	572 mm
Approvals / Certificates	
General Product Approval	

China RoHS

Dangerous goods	Environment

Dangerous goods information

Test Summary Report UN 38.3

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