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Data sheet 6AG4131-3GJ20-3AA3

SIMATIC IPC627E (Box PC), UHD Graphics onboard; DP/DVI-D; 3x Gigbit Ethernet (IE/PN); 6x USB V3.1 Gen.2; 1x serial (COM 1); RAID controller onboard; Watchdog, temperature and fan monitoring; Core i7-8700 (6C/12T, 3.2(4.6) GHz, 12 MB cache, VT-d, AMT); M.2 SSD NVMe 512 GB; 16 GB DDR4-2666 (2x8); 24 V DC industrial power supply Windows 10 Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es) For Core i7; without expansion (software); without expansion (HW); 3x PCI, 2x PCIe (x16, x4);

General information	
Product type designation	IPC627E
Installation type/mounting	
Mounting	Wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	100/240 V AC (autorange); 24 V DC
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	Celeron G4900 (2C/2T, 3.1 GHz, 2 MB cache; VT-d); Core i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); Core i7-8700 (6C/12T, 3.2 (4.6) GHz, 12 MB cache, VT-d, AMT)
Chipset	Intel C246
Graphic	
Graphics controller	Intel UHD Graphics 630 (Core i); Intel UHD Graphics 610 (Celeron)
Drives	
Hard disk	2.5" SATA ≥ 320 GB
SSD	Yes; SSD M.2 NVMe 512 GB; SSD 2.5" SATA 480 / 960 GB; RAID1 2x SSD 2.5" SATA 480 / 960 GB in removable drive bay
Storage	
Type of memory	DDR4-2666 DIMM
Main memory	4 / 8 / 16 / 32 / 64 GB
Capacity of main memory, max.	64 Gbyte
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time
Hardware configuration	
Slots	
● Number of PCI slots	3; Optional
● Number of PCI slots	5; Optional
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
serial interface	1x COM
Video interfaces	
● Graphics interface	2x DisplayPort; 1x DVI-D
Industrial Ethernet	
● Industrial Ethernet interface	
— 100 Mbps	Yes
— 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Integrated Functions	
Monitoring functions	

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● Temperature monitoring	Yes
● Fan	Yes
● Monitoring function via network	Optional
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
cULus	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
BSMI	Yes
Use in hazardous areas	
● cULus Class I Zone 2, Division 2	Yes; Optional
Marine approval	
● American Bureau of Shipping (ABS)	Yes; Only with SSD
● Bureau Veritas (BV)	Yes; Only with SSD
● Det Norske Veritas (DNV)	Yes; Only with SSD
● Korean Register of Shipping (KRS)	Yes; Only with SSD
● Lloyds Register of Shipping (LRS)	Yes; Only with SSD
● Nippon Kaiji Kyokai (Class NK)	Yes; Only with SSD
● Chinese Classification Society (CCS)	Yes; Only with SSD
Ambient conditions	
Ambient temperature during operation	
● min.	5 °C
● max.	55 °C
Ambient temperature during storage/transportation	
● min.	-20 °C
● max.	60 °C
Vibrations	
● Vibration resistance during operation acc. to IEC 60068-2-6	tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s² (1 g)
Operating systems	
pre-installed operating system	Windows 10 Enterprise 2016 LTSB or 2019 LTSC or 2021 LTSC 64 bit, MUI
without operating system	Yes; Optional
pre-installed operating system	
● Windows 10 Enterprise	Yes; Windows 10 Enterprise 2016 LTSB or 2019 LTSC or 2021 LTSC 64 bit, MUI
Dimensions	
Width	314 mm
Height	93 mm; For variant 5x PCI(e): 155 mm
Depth	301 mm; incl. mounting rail

Classifications

	Version	Classification
eClass	16	19-20-01-02
eClass	14	19-20-01-02
eClass	12	19-20-01-02
eClass	9.1	19-20-01-02
eClass	9	19-20-01-02
eClass	8	19-20-01-02
eClass	7.1	19-20-01-02
eClass	6	19-20-01-02
ETIM	10	EC001413
ETIM	9	EC001413

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ETIM	8	EC001413
ETIM	7	EC001413

Approvals / Certificates

General Product Approval

		Manufacturer Declaration			inspection certificate

General Product Approval

					Maritime application
		BIS CRS			

Maritime application

			NK / Nippon Kaiji Kyokai	CCS (China Classification Society)	KR (Korean Register of Shipping)

other	Dangerous goods			Environment	
	Dangerous goods information	Dangerous goods information	Test Summary Report UN 38.3	Environmental Confirmations	Environmental Confirmations

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