SIEMENS

Data sheet

6AG4131-3CG13-2AA0

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 i3-8100 (4C/4T, 3.6 GHz, 6 MB cache, VT-d); RAID1 2x SSD 2.5" SATA 480 GB in removable frame; 8 GB DDR4-2666 (2x4); 110/230 V AC industrial power supply unit with NAMUR; Power supply cable USA; Windows 10 Enterprise 2019 LTSC, 64-bit, MUI (en, de, fr, it, es) For Celeron and Core I3; without expansion (software); without expansion (HW); 2x PCI

	POI
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
Memory	
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	
• free slots	2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); 3x PCI & 2x PCIe (x16, x4); 5x PCIe (1x16, 2x4, 2x1); with card retainer
 Number of PCI slots 	5; Optional
 Number of PCI slots 	5; Optional
Interfaces	
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	6x USB 3.1 Gen. 2 (2x type C)
Connection for keyboard/mouse	USB / USB
serial interface	1x COM
Video interfaces	
Graphics interface	2x DisplayPort; 1x DVI-D
Industrial Ethernet	
Industrial Ethernet interface	3x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes
Integrated Functions	
Monitoring functions	

**Status LEDS	- Matahaa	Van
First Monitoring function via network Optional	Watchdog Status LEDs	Yes
Monitoring function via network Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity against ligh-frequency electromagnetic fields Interference immunity against high-frequency radiation Interference immunity to cable borne interference Interference immunity to cable borne interference Interference immunity on signal cables > 30m Interference immunity or signal cables > 30m Interference immu		
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electricity		.0.17
Interference immunity against high frequency radiation Interference immunity to cable-borne interference Interference immunity on supply cables Interference immunity on suppl cables > 30m Interference		
Cit. 2, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-4; burst. ±1 kY acc. to IEC 61000-4-5; surge symmetric ±2 kY acc. to IEC 61000-4-5; surge asymmetric ±2 kY acc. to IEC 61000-4-4; burst, length > 3 m ±1 kY acc. to IEC 61000-4-4; burst, length > 3 m ±1 kY acc. to IEC 61000-4-4; burst, length > 3 m ±1 kY acc. to IEC 61000-4-4; burst, length > 3 m ±2 kY acc. to IEC 61000-4-4; burst, length > 3 m ±1 kY acc. to IEC 61000-4-5; surge asymmetric interference interfer	Interference immunity against high-frequency electromagnetic field	S
Interference immunity on supply cables symmetric: 22 kV acc. to IEC 61000-4-6, surge symmetric interference immunity on signal cables > 30m	 Interference immunity against high frequency radiation 	10 V/m for 80 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity on signal cables >30m	Interference immunity to cable-borne interference	
Interference immunity on signal cables < 30m Interference immunity against voltage surge	• Interference immunity on supply cables	
burst, length > 3 m Interference immunity against voltage surge asymmetric interference symmetric interference interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference Interference emission will funk?d current cables En 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP degree of protection IP degree of protection IP degree of protection Standard's, approvals, certificates CE mark Yes UL approval Ves RCM (formerly C-TICK) Yes RCM (formerly Gost-R) FCC Yes EAC (formerly Gost-R) FCC Yes EAC (formerly Gost-R) FCC Yes EAC (formerly Gost-R) FCC Yes ENC CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005 Marine approval American Bureau of Shipping (ABS) Per Norske Veritas (DNV) Nes Port Norske Veritas (DNV) Pes Ambient temperature during operation min. 5°C minx. 60°C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-80. Operation: 5% to 60°C Relative humidity Tested according to DIN IEC 60068-2-78, IEC 60068-2-80. Operation: 5% to 60°C Shock testing Northor operation Tested to DIN IEC 60068-2-20: 50 m/s² (5 g), 30 ms, 100 shocks Operating system Yes; Windows 10 Enterprise 2016 LTSB or 2019 LTSC 64-bit, MUI without operating system Yes; Windows 10 Enterprise 2016 LTSB or 2019 LTSC 64-bit, MUI without operating system Per installed operating system	 Interference immunity on signal cables >30m 	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
Interference immunity against voltage surge	• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
symmetric interference interference interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference Interference emission via line/AC current cables Pogree and classes of protection IP degree of protection IP degre	Interference immunity against voltage surge	bulst, length > 3 m
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Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference Interference emission via line/AC current cables En 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP20 Standards, approvals, certificates CE mark Ves UL approval Ves CULus RCM (formerly C-TICK) Yes RCM (formerly Gost-R) FCC Yes EAC (formerly Gost-R) FCC Yes EAC (formerly Gost-R) IP20 Marine approval American Bureau of Shipping (ABS) Po Ho Norse Verlias (DNV) Nippon Kaiji Kyokai (Class NK) Ambient temperature during operation IP20 Standards, approval Ambient temperature during storage/transportation IP20 Interference immunity to magnetic fields at 50 Hz Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5% to 80% 28 °C (no condensation) Vibrations IP20 IP2	symmetric interference	
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PP degree of protection PP20	Degree and class of protection	
Standards, approvals, certificates CE mark Ves CUL approval CULus Yes RCM (formerly C-TICK) Yes RCM (formerly Gost-R) FCC Yes EMC EMC CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005 Marine approval • American Bureau of Shipping (ABS) • Det Norske Veritas (DNV) • Nippon Kaji Kyokai (Class NK) Ambient conditions Ambient conditions Ambient temperature during operation • min. • max. Ambient temperature during storage/transportation • min. • max. Ambient temperature during storage/transportation • min. • max. Abbient conditions Arbient temperature during storage/transportation • min. • max. Abbient temperature during storage/transportation • min. • max. Abbient temperature during storage/transportation • min. • max. Abbient conditions Arbient temperature during storage/transportation • min. • max. Abbient conditions Arbient temperature during storage/transportation • min. • max. Abbient conditions Arbient temperature during storage/transportation • min. • Co °C Relative humidity • Relative humidity • Relative humidity • Relative humidity • Tested according to IEC 60068-2-78, IEC 60068-2-30. Operation: 5% to 80% 25 °C (no condensation). Storage: 5% to 95% at 25 °C (no condensation) Vibrations • Vibration resistance during operation acc. to IEC 60068-2-6 Shock testing • Shock load during operation • Tested to DIN IEC 60068-2-9: 50 m/s² (5 g), 30 ms, 100 shocks Operating system pre-installed operating system Windows 10 Enterprise 2016 LTSB or 2019 LTSC 64-bit, MUI without operating system • Windows 10 Enterprise 2016 LTSB or 2019 LTSC 64-bit, MUI		IP20
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Windows 10 Enterprise Yes; Windows 10 Enterprise 2016 LTSB or 2019 LTSC 64-bit, MUI	without operating system	Yes; Optional
	pre-installed operating system	
Software	Windows 10 Enterprise	Yes; Windows 10 Enterprise 2016 LTSB or 2019 LTSC 64-bit, MUI
	Software	
SIMATIC Software Optional package with SIMATIC WinCC	SIMATIC Software	Optional package with SIMATIC WinCC

Dimensions	
Width	314 mm
Height	93 mm; For variant 5x PCI(e): 155 mm
Depth	301 mm; incl. mounting rail

last modified:

8/10/2021