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Data sheet 6AG4012-1CA21-0BX0

SIMATIC IPC347E (Rack PC, 19", 4HU); Core I5-4570S (4C/4T, 2.9 (3.6) GHz, 6 MB cache); Interfaces: 2x Gbit Ethernet, 1x DVI-D, 1x VGA, 2x USB on the front, 4x USB on the rear, 1x USB internal, 2x serial, 2x PS/2, audio; 1x 500 GB HDD, internal; 4 GB DDR3 SD-RAM (1x 4 GB), single channel; DVD +/-RW; Windows 7 Ultimate 64 bit SP1; 100/240 V industrial power supply, without line cable



Installation type/mounting	
Mounting	For horizontal rack mounting
Design	Rack PC, 19", 4U
Rack mounting	Yes
Supply voltage	
Type of supply voltage	100 - 240 V AC
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Processor	
Processor type	Core i5-4570S (4C/4T, 2.9 (3.6) GHz, 6 MB Cache)
Drives	
Hard disk	500 GB HDD
Memory	
Type of memory	DDR3-SDRAM
Main memory	4 GB (pre-installed), support up to 16 GB
Capacity of main memory, max.	4 Gbyte

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Hardware configuration	
Slots	
• free slots	4x PCI, 1x PCIe, 1x PCI (x8) (2 Lanes), 1x PCIe (x16) (16 Lanes)
Interfaces	
Interfaces/bus type	2x Gbit Ethernet (RJ45), 1x DVI-D, 1x VGA, 4x USB 2.0 on rear, 2x USB 2.0 on front, 2x COM, 2x PS/2, Audio (Line in, Line out, Micro)
Number of industrial Ethernet interfaces	2
USB port	2x USB 3.0 rear, 2x USB 2.0 rear, 2x USB 2.0 front, 1x USB 2.0 internal
serial interface	2x COM ports (RS 232, RS 422, RS 485)
Video interfaces	
• Graphics interface	1x VGA; 1x DVI-D
Industrial Ethernet	
• Industrial Ethernet interface	2 x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes
Integrated Functions	
Monitoring functions	
• Status LEDs	POWER, HDD
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
Interference immunity against high-frequency electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 - 1000 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 1 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 150 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
• Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
• Interference immunity on signal cables >30m	±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±2 kV acc. to IEC 61000-4-5, surge; length > 30 m
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
Interference immunity against voltage surge	
• asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	30 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	

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• Interference emission via line/AC current cables	IEC 61000-6-4, CISPR 22, FCC Class A
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3

Degree and class of protection	
IP (at the front)	IP20
IP (rear)	IP20

Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
cULus	Yes
KC approval	Yes
FCC	Yes
EMC	CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005

Ambient conditions	
Ambient temperature during operation	
• Ambient temperature during operation	+5 °C to +40 °C
• min.	5 °C
• max.	40 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
• Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5% to 80% at 25 °C (no condensation), Storage: 5% to 95% at 25 °C (no condensation)

Operating systems	
pre-installed operating system	Yes
pre-installed operating system	
• Windows 7	Yes; Ultimate 64 bit

Mechanics/material	
Enclosure material (front)	
• Aluminum	Yes

Dimensions	
Width	430 mm
Height	177 mm
Depth	463 mm

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