SIEMENS

Data sheet

6AG4141-5BB30-0AA0

SIMATIC IPC427E (Microbox PC), HD graphic onboard, 4x USB V3.0 (high current), PCIE (optional), Core i5-6442EQ; 3x Gbit Ethernet (IE/PN); Mounting onto standard rail; 8 GB; 2x RS232/485; without PCIe; without operating system, Without replaceable mass storage; without internal mass storage; Without SIMATIC software; 24 V DC industrial power supply

	SIMATIC software; 24 V DC industrial power supply
General information	
Product type designation	IPC427E
Installation type/mounting	
Mounting	DIN rail, wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	211000
Mains/voltage failure stored energy time	20 ms
Processor	20110
	Coloron C2002 (2C/2T 1.6 CHz 2 MP Coobo); Coro i2 6102E (2C/4T 1.0
Processor type	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)
Chipset	Intel C236 / Intel H110
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
Optical drives	possible as external drive via USB
Hard disk	2.5" SATA ≥ 320 GB
SSD	Yes; 128 / 240 / 480 GB
Memory	
Type of memory	DDR4-2400 SO-DIMM
Main memory	4 / 8 / 16 GB, ECC optional
Capacity of main memory, max.	16 Gbyte
Data areas and their retentivity	10 Obyte
	512 khuta: 122 KB can be atored in the huffer time: entioned
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	
Slots	
• free slots	2x PCle; optional: 1x PCle (x4); 2x PCle (x1, x4), with card retainer
Number of PCI slots	2; Optional
 Number of compact flash slots 	
	1; CFast
Number of industrial Ethernet interfaces	3; Ethernet (2x RJ45, optional 3x RJ45)
Number of industrial Ethernet interfaces	3; Ethernet (2x RJ45, optional 3x RJ45) 4x USB 3.0 USB / USB
Number of industrial Ethernet interfaces USB port	3; Ethernet (2x RJ45, optional 3x RJ45) 4x USB 3.0
Number of industrial Ethernet interfaces USB port Connection for keyboard/mouse serial interface Video interfaces	3; Ethernet (2x RJ45, optional 3x RJ45) 4x USB 3.0 USB / USB Without / 2x COM (RS 232 / 485 / 422; switchable)
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Number of industrial Ethernet interfaces USB port Connection for keyboard/mouse serial interface Video interfaces • Graphics interface Industrial Ethernet • Industrial Ethernet interface — 100 Mbps — 1000 Mbps	3; Ethernet (2x RJ45, optional 3x RJ45) 4x USB 3.0 USB / USB Without / 2x COM (RS 232 / 485 / 422; switchable) 2x DisplayPort 3x Ethernet (RJ45) Yes
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Number of industrial Ethernet interfaces USB port Connection for keyboard/mouse serial interface Video interfaces • Graphics interface Industrial Ethernet • Industrial Ethernet interface - 100 Mbps - 1000 Mbps Interrupts/diagnostics/status information Bus diagnostics	3; Ethernet (2x RJ45, optional 3x RJ45) 4x USB 3.0 USB / USB Without / 2x COM (RS 232 / 485 / 422; switchable) 2x DisplayPort 3x Ethernet (RJ45) Yes Yes
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USB port Connection for keyboard/mouse serial interface Video interfaces • Graphics interface Industrial Ethernet • Industrial Ethernet interface — 100 Mbps — 1000 Mbps Interrupts/diagnostics/status information Bus diagnostics Integrated Functions	3; Ethernet (2x RJ45, optional 3x RJ45) 4x USB 3.0 USB / USB Without / 2x COM (RS 232 / 485 / 422; switchable) 2x DisplayPort 3x Ethernet (RJ45) Yes Yes

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• Fan	No
Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
Interference immunity against discharge of static electricity	±6 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	S
 Interference immunity against high frequency radiation 	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 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 61000-4-5, surge, length > 30 m
 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
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 	100 A/m; to IEC 61000-4-8
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	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
• UL 508	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
EMC	CE, EN 55022A, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas	
ATEX Zone 2	Yes: Optional
IECEX Zone 2	Yes; Optional
cULus Class I Zone 2, Division 2	Yes; Optional
Marine approval	
Germanischer Lloyd (GL)	Yes
American Bureau of Shipping (ABS)	Yes
	Yes
Bureau Veritas (BV) Det Norske Veritas (DNV)	Yes
 Det Norske Veritas (DNV) Korean Register of Shipping (KRS) 	Yes
	Yes
Lloyds Register of Shipping (LRS) Nippon Kajij Kvokaj (Class NK)	
Nippon Kaiji Kyokai (Class NK)	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °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)
Vibrations	
 Vibration resistance during operation acc. to IEC 60068- 2-6 	tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)
Shock testing	
 Shock load during operation 	Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks

Operating systems	
pre-installed operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10
without operating system	Yes; Optional
pre-installed operating system	
Windows 7	Yes; Ultimate 32 bit or 64 bit
 Windows 10 Enterprise 	Yes; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI
Software	
SIMATIC Software	Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle
Dimensions	
Width	262 mm
Height	139.7 mm
Depth	55.5 mm

last modified:

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