SIEMENS

Data sheet

6AG4141-0AA01-3AA0

SIMATIC IPC427E (Microbox PC), HD graphic onboard, 4x USB V3.0 (high current), PCIE (optional), Celeron G3902E; 2x Gbit Ethernet (IE/PN); Without mounting accessories; 4 GB; Without RS232/485, without PCIe; WIN Embedded Standard 7 SP1, English, 32-bit, CFAST 8 GB, (only optionally with operating system/SW, if no internal mass storage); without internal mass storage; Without SIMATIC software; 24 V DC industrial power supply

power supply
IPC427E
DIN rail, wall mounting, portrait mounting
Box PC, built-in unit
24 V DC
20 ms
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)
Intel C236 / Intel H110
Intel HD graphics controller
possible as external drive via USB
2.5" SATA ≥ 320 GB
Yes; 128 / 240 / 480 GB
DDR4-2400 SO-DIMM
4 / 8 / 16 GB, ECC optional
16 Gbyte
512 kbyte; 128 KB can be stored in the buffer time; optional
2x PCle; optional: 1x PCle (x4); 2x PCle (x1, x4), with card retainer
2; Optional
1; CFast
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
Yes

Integrated Functions		
Monitoring functions		
Temperature monitoring	Yes	
Watchdog	Yes	
Status LEDs	1x power, 3x user	
• Fan	No	
Monitoring function via network	Optional	
EMC	οριοπαι	
Interference immunity against discharge of static electricity	I 6 kV contact discharge and to IEC 61000 4 2: 18 kV cir discharge and	
 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 electromagneti	c fields	
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 	\pm 1 kV acc. to IEC 61000-4-4; burst; length < 3 m; \pm 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	
CE mark UL approval	Yes Yes	
UL approval	Yes	
UL approval • UL 508	Yes Yes	
UL approval • UL 508 cULus	Yes Yes Yes	
UL approval • UL 508 cULus RCM (formerly C-TICK)	Yes Yes Yes	
UL approval • UL 508 cULus RCM (formerly C-TICK) KC approval	Yes Yes Yes Yes	
UL approval • UL 508 cULus RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) FCC EMC	Yes Yes Yes Yes Yes	
UL approval • UL 508 cULus RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) FCC EMC Use in hazardous areas	Yes Yes Yes Yes Yes Yes CE, EN 55022A, EN 61000-6-4, EN 61000-6-2	
UL approval • UL 508 cULus RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) FCC EMC Use in hazardous areas • ATEX Zone 2	Yes Yes Yes Yes Yes Yes CE, EN 55022A, EN 61000-6-4, EN 61000-6-2	
UL approval • UL 508 CULus RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) FCC EMC Use in hazardous areas • ATEX Zone 2 • IECEx Zone 2	Yes Yes Yes Yes Yes Yes CE, EN 55022A, EN 61000-6-4, EN 61000-6-2 Yes; Optional Yes; Optional	
UL approval • UL 508 CULus RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) FCC EMC Use in hazardous areas • ATEX Zone 2 • IECEx Zone 2 • cULus Class I Zone 2, Division 2	Yes Yes Yes Yes Yes Yes CE, EN 55022A, EN 61000-6-4, EN 61000-6-2	
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UL approval • UL 508 cULus RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) FCC EMC Use in hazardous areas • ATEX Zone 2 • IECEx Zone 2 • cULus Class I Zone 2, Division 2 Marine approval • Germanischer Lloyd (GL)	Yes Yes Yes Yes Yes Yes CE, EN 55022A, EN 61000-6-4, EN 61000-6-2 Yes; Optional Yes; Optional Yes; Optional Yes; Optional	
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	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/s ² (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:	12/1/2020 🖸