SIEMENS

Data sheet ____6AG4141-....-

SIMATIC IPC427E (Microbox PC), HD graphic onboard, 4x USB V3.0 (High Current), PCIE (optional), 24V DC Power supply;



Figure similar

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
Processor	
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)
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
Hard disk	2.5" SATA ≥ 320 GB
SSD	Yes; 1x 80 GB, 1x 240 GB SSD, 1x 480 GB SSD
Memory	

Type of memory	DDR4 SO-DIMM	
Main memory	4 GB to 16 GB, ECC optional	
Capacity of main memory, max.	16 Gbyte	
<u> </u>		
Data areas and their retentivity	540 H 4 400 KP	
Retentive data area (incl. timers, counters, flags),	512 kbyte; 128 KB can be stored in the buffer time; optional	
max.		
Hardware configuration		
Slots		
• free slots	2x PCIe; optional: 1x PCIe (x4); 2x PCIe (x1, x4), with card retainer	
 Number of PCI slots 	2; Optional	
 Number of compact flash slots 	1; CFast	
Interfaces		
Number of industrial Ethernet interfaces	3; Ethernet (2x RJ45, optional 3x RJ45)	
USB port	4x USB 3.0	
Connection for keyboard/mouse	USB / USB	
serial interface	Without / 2x COM (RS 232 / RS 485 / RS 422; switchable)	
Video interfaces		
Graphics interface	2x DisplayPort	
Industrial Ethernet		
Industrial Ethernet interface	3x Ethernet (RJ45)	
— 100 Mbps	Yes	
— 1000 Mbps	Yes	
Interrupts/diagnostics/status information		
Bus diagnostics	Yes	
Integrated Functions		
Monitoring functions		
Temperature monitoring	Yes	
Watchdog	Yes	
• Status LEDs	Yes	
● Fan	No	
 Monitoring function via network 	Optional	
EMC		
Interference immunity against discharge of static elec-	tricity	
 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 electron	nagnetic fields	
 Interference immunity against high frequency radiation 	10 V/m for 80 - 1000 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	
• Interference infindinty on signal capies < 30iii	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 (at the front)	IP20	
IP (rear)	IP20	
Standards, approvals, certificates		
CE mark	Yes	
UL approval	Yes	
• UL 508	Yes	
cULus	Yes	
RCM (formerly C-TICK)	Yes	
KC approval	Yes	
FCC	Yes	
EMC	CE, EN 55022A, EN 61000-6-4, EN 61000-6-2	
Ambient conditions		
Ambient conditions Ambient temperature during operation		
Ambient temperature during operation	0 °C to +55 °C	
• 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:	
• Relative numbers	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 operatio 	Shock	load	durina	operation
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Tested to DIN IEC 60068-2-29: 50 m/s^2 (5 g), 30 ms, 100 shocks

Operating systems	
Operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded
	Standard 7 E/P 32-bit / 64-bit, Windows 10
pre-installed operating system	Yes
without operating system	Yes
pre-installed operating system	
• Windows 7	Yes; Ultimate 32 bits or 64 bits
 Windows 10 IoT Enterprise 	Yes; Windows 10 IoT Enterprise LTSB 2016 (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
Other	
Warranty period	36 mo; Warranty period