SIEMENS

Data sheet

6AG4141-5BC00-0GA0

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; 16 GB; Without RS232/485, without PCIe; without operating system, Without replaceable mass storage; 480 GB solid-state drive SATA Without SIMATIC software; 24 V DC industrial 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
Yes
Yes Yes

• Fan	No
Monitoring function via network	Optional
EMC	Ориона
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 field	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 >30mInterference immunity on signal cables < 30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4;
Interference immunity excinet vallege cures	burst; length > 3 m
Interference immunity against voltage surge	10 IV/ t- IFO 04000 4 F
asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
symmetric interference Interference impunity to magnetic fields	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	400 A/m to IFC 04000 4 0
Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference.	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	FU ALONG O A FIV ALONG O A GUODE OO OU DE FOO OU
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
Bureau Veritas (BV)	Yes
Det Norske Veritas (DNV)	Yes
Korean Register of Shipping (KRS)	Yes
Lloyds Register of Shipping (LRS)	Yes
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
	70 °C
Max. Polative humidity.	10 0
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:

6/25/2021