SIEMENS

Data sheet 6AG4141-5BG27-5AA0

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 and NVRAM; without RS232/485; 2x PCIe (x4 and x1); Windows 10 IoT Enterprise 2016 LTSB (64-bit) for Celeron, i3 and i5; CFast 128 GB, (only as option with operating system/SW, if no internal mass storage); without internal mass storage; Without 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
Rated value (DC)	24 V; PELV / SELV floating
Mains buffering	
● Mains/voltage failure stored energy time	20 ms
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)
Chipset	Intel C236 / Intel H110
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
Hard disk	2.5" SATA ≥ 320 GB
SSD	Yes; 128 / 240 / 480 GB
Storage	
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	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	
Slots	
● 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)
serial interface	Without / 2x COM (RS 232 / 485 / 422; switchable)
Video interfaces	
● Graphics interface	2x DisplayPort
Industrial Ethernet	
● Industrial Ethernet interface	
— 100 Mbps	Yes
— 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	1x power, 3x user
Bus diagnostics	Yes
Integrated Functions	
Monitoring functions	
● Temperature monitoring	Yes
● Fan	No

© Copyright Plcreadyship

● Monitoring function via network	Optional
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
Use in hazardous areas	
● ATEX Zone 2	Yes; for inscription on device rating plate
● ATEX Zone 22	No
● IECEx Zone 2	Yes; for inscription on device rating plate
● IECEx Zone 22	No
● CCC Ex	Yes; for inscription on device rating plate
● cULus Class I Zone 1	No
● cULus Class I Zone 2, Division 2	Yes; for inscription on device rating plate
● cULus Class II Division 2	No
● FM Class I Division 2	No
● FM Class II Division 2	No
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
● max.	70 °C
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)
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	
Pre-installed software	Edge SW (Simatic, Sinumerik), optional
Dimensions	
Width	262 mm
Height	139.69999 mm
Depth	55.5 mm; without PCIe
Approvals / Certificates	

General Product Approval	EMV	other

© Copyright Plcreadyship

Confirmation

other	Environment
产品合格 QC PASS	Environmental Confirmations

last modified: 6/10/2026

© Copyright Plcreadyship