## **SIEMENS**

Data sheet	6AG4140-4BC24-0KA0
	SIMATIC IPC427D (Microbox PC), HD graphic onboard, 2x10/100/1000 Mbit/s Ethernet RJ45, 4xUSB V3.0 (high current), PCIe (optional), 24 V DC power supply
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 827E (1C/1T, 1.40 GHz, 1.5 MB Cache); Core i3-3217UE (2C/4T, 1.60 GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache, iAMT)
Graphic	
Graphics controller	Intel HD Graphics, Intel HD Graphics 4000
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	DDR3 SO-DIMM
Main memory	2 / 4 / 8 GB; ECC optional
Capacity of main memory, max.	8 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	
• free slots	2x PCle; optional: 1x PCle (x4); 2x PCle (x1, x4), with card retainer
<ul> <li>Number of PCI slots</li> </ul>	2; Optional
<ul> <li>Number of compact flash slots</li> </ul>	2; CFast
Interfaces	
PROFIBUS/MPI	onboard, isolated, max. 12 Mbit/s, CP 5611-compatible
Number of PROFINET interfaces	1; 3 ports (incl. switch)
USB port	4x USB 3.0
Connection for keyboard/mouse	USB / USB
serial interface	COM1: 1x RS 232, COM2 (optional): 1x RS 232

Video interfaces		
Graphics interface	1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional)	
Industrial Ethernet		
Industrial Ethernet interface		
— 100 Mbps	Yes	
— 1000 Mbps	Yes	
Interrupts/diagnostics/status information		
Bus diagnostics	Yes	
Integrated Functions		
Monitoring functions		
Temperature monitoring	Yes	
<ul><li>Watchdog</li></ul>	Yes	
Status LEDs	Yes	
<ul> <li>Monitoring function via network</li> </ul>	Optional	
EMC		
Interference immunity against discharge of static electri	city	
<ul> <li>Interference immunity against discharge of static electricity</li> </ul>	±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 electroma	agnetic fields	
<ul> <li>Interference immunity against high frequency radiation</li> </ul>	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	
<ul> <li>Interference immunity on signal cables &gt;30m</li> </ul>	±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		
<ul> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul>	100 A/m; to IEC 61000-4-8	
Emission of conducted and non-conducted interference		
<ul> <li>Interference emission via line/AC current cables</li> </ul>	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		

CF	Vac
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
Use in hazardous areas	V
• ATEX Zone 2	Yes
• IECEx Zone 2	Yes
cULus Class I Zone 2, Division 2	Yes
Marine approval	
Germanischer Lloyd (GL)	Yes
<ul><li>American Bureau of Shipping (ABS)</li></ul>	Yes
<ul><li>Bureau Veritas (BV)</li></ul>	Yes
<ul><li>Det Norske Veritas (DNV)</li></ul>	Yes
<ul> <li>Korean Register of Shipping (KRS)</li> </ul>	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul> <li>Nippon Kaiji Kyokai (Class NK)</li> </ul>	Yes
Ambient conditions	
Ambient temperature during operation	
Ambient temperature during operation	0 °C to +55 °C
Ambient temperature during storage/transportation	0 0 10 100 0
• min.	-40 °C
• max.	70 °C
Relative humidity	70 0
Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation:
• Relative numidity	5% to 80% at 25 °C (no condensation), Storage: 5% to 95% at 25
	°C (no condensation)
Vibrations	
Vibration resistance during operation acc. to	Tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz
IEC 60068-2-6	to 200 Hz: 9.8 m/s <sup>2</sup> (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	
Operating system	Windows 7 Ultimate (Multi-Language) 32-bit / 64-bit, Windows
	Embedded Standard 7 E/P 32-bit / 64-bit
pre-installed operating system	Yes
without operating system	Yes
pre-installed operating system	
• Windows 7	Yes; Ultimate 32 bit or 64 bit

Software	
SIMATIC Software	Optionally with pre-installed software bundle SIMATIC WinCC RT Advanced / WinAC RTX
Dimensions	
Width	262 mm
Height	139.7 mm
Depth	50.5 mm
last modified:	09/10/2018