SIEMENS

Data sheet

6AG4140-0BC07-0HA0

*** no longer available *** 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 Celeron U827E; 2x Gbit Ethernet (IE/PN); DIN rail mounting; 4 GB; 1x RS-232; without PCIE; Windows 7 Ultimate 64-bit, Replaceable without drive; SSD 80 GB Standard (MLC); without SIMATIC software

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 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	
Number of PCI slots	2; Optional	
 Number of compact flash slots 	2; CFast	
Interfaces		
PROFIBUS/MPI	optionally onboard, isolated, max. 12 Mbps, compatible with CP 5611	
Number of industrial Ethernet interfaces	2	
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	Onboard, 2x 10/100/1 000 Mbit, RJ45, no plug-in card necessary	
— 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 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 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 	±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		
Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8	
Emission of conducted and non-conducted interference	EN 04000 0.0 EN 04000 0.4 C/ODE 00.0	
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; CE marking / EC Declaration of Conformity	
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		
ATEX Zone 2	Yes; Optional	
• IECEx Zone 2	Yes; Optional	
 cULus Class I Zone 2, Division 2 	Yes; Optional	
FM Class I Division 2	Yes	
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		
Ambient temperature during operation	0 °C up to 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: 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) 32-bit / 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit
without operating system	Yes; Optional
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:	3/21/2021 🖸