SIEMENS

6AG4140-5BB50-2AA0 Data sheet 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 Core I3-3217UE; 1x Gbit Ethernet (IE/PN); 1x PROFINET (IRT, 3 ports); DIN rail mounting; 2 GB; 2x RS-232; 2x PCIE; without operating system; CFast 4 GB, (possible with SW, if no internal mass storage); Without internal mass storage; without SIMATIC software Installation type/mounting Mounting DIN rail, wall mounting, portrait mounting Design Box PC, built-in unit Supply voltage 24 V DC Type of supply voltage Processor Celeron 827E (1C/1T, 1.40 GHz, 1.5 MB Cache); Core i3-3217UE Processor type (2C/4T, 1.60 GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache, iAMT) Graphic Intel HD Graphics, Intel HD Graphics 4000 Graphics controller 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 512 kbyte; 128 KB can be stored in the buffer time; optional Retentive data area (incl. timers, counters, flags), max. Hardware configuration Slots 2x PCle; optional: 1x PCle (x4); 2x PCle (x1, x4), with card free slots retainer Number of PCI slots 2; Optional • Number of compact flash slots 2; CFast Interfaces 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
•	Yes
— 1000 Mbps	163
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 electric	city
 Interference immunity against discharge of 	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air
static electricity	discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electroma	ignetic 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	10 V 101 10 KHZ - 60 MHZ, 60 % ANI ACC. 10 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,
• Interference initiality of supply cables	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 	\pm 1 kV acc. to IEC 61000-4-4; burst; length < 3 m; \pm 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	
 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
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)
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
Dimensions	
Width	262 mm

Height	139.7 mm
Depth	50.5 mm
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