SIEMENS

Data sheet

6AG4132-2AL60-3XX3

SIMATIC IPC827D (Box PC) HD graphic onboard, 2x Gigabit Ethernet (IE/PN) 4xUSB V3.0; 1x serial (COM 1); RAID controller onboard; Watchdog, temp./fan monitoring Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB cache) RAID1 2x 320 GB HDD SATA (2.5") in removable frame; Solid-state drive 240 GB 16 GB DDR3 1600 DIMM; ECC; 1x PCIE (X16); 1x PCIE (X4); 3x PCI 2x USB additive; COM2; LPT (2 slots occupied) without operating system without expansion (software) AC 110/230V industrial power supply unit with NAMUR; Power supply cable USA

	TTO/250V Industrial power supply unit with NAMOR, Power supply cable USA
Installation type/mounting	
Mounting	Wall mounting, portrait mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	100/240 V AC (autorange); 24 V DC
Line frequency	
Rated value 50 Hz	Yes
Rated value 60 Hz	Yes
Mains buffering	
 Mains/voltage failure stored energy time 	20 ms
Processor	
Processor type	Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)
Chipset	Intel DH82C226 PCH
Graphic	
Graphics controller	Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)
Drives	
Optical drives	DVD±R±RW combi-drive, optional
Hard disk	3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay
SSD	Yes; ≥ 240 GB optional
Memory	
Type of memory	DDR3-1600 DIMM
Main memory	2 / 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.	2 Mbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	
Slots	
free slots	3x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer
Number of PCI slots	3
Number of PCI slots	2
Interfaces	
PROFIBUS/MPI	Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622
Number of industrial Ethernet interfaces	2; 2x RJ45 (independent)
Number of PROFINET interfaces	3; Optional
USB port	4x USB 3.0
Connection for keyboard/mouse	USB / USB
serial interface	1x COM1 (RS 232), optional: 1x COM2 (RS 232)
parallel interface	optional LPT1
Video interfaces	
	1x DisplayPort and 1x D\/L I: 1x \/GA via adapter cable (antional)
Graphics interface	1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional)
Industrial Ethernet	Ophoard 2v 10 / 100 / 1000 Mbit D 145
Industrial Ethernet interface	Onboard, 2x 10 / 100 / 1000 Mbit, RJ45
— 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	Yes	
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 electromagnetic 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		
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	
UL approval	Yes	
• UL 508	Yes	
cULus	Yes	
RCM (formerly C-TICK)	Yes	
KC approval	Yes	
FCC	Yes	
EMC	CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005	
Marine approval		
Germanischer Lloyd (GL)	Yes	
American Bureau of Shipping (ABS)	Yes	
Bureau Veritas (BV)	Yes	
Det Norske Veritas (DNV)	Yes	
Lloyds Register of Shipping (LRS)	Yes	
 Nippon Kaiji Kyokai (Class NK) 	Yes	
Ambient conditions		
Ambient temperature during operation		
• min.	5 °C	
• max.	55 °C	
Ambient temperature during storage/transportation		
• min.	-20 °C	
• max.	60 °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- 	tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to	

2-6	500 Hz 9.8 m/s² (1 g)
Shock testing	
 Shock load during operation 	Tested to DIN IEC 60068-2-29: 50 m/s ² (5 g), 30 ms, 100 shocks
Operating systems	
pre-installed operating system	Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 P, 32- bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI
without operating system	Yes
pre-installed operating system	
• Windows 7	Yes; Ultimate 32 bit or 64 bit
Windows 10 Enterprise	Yes; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI
Software	
SIMATIC Software	Optional package with SIMATIC WinCC or WinAC RTX
Dimensions	
Width	312 mm
Height	155 mm; With DVD drive: 179 mm
Depth	301 mm; incl. mounting rail

last modified:

6/25/2021 🖸