SIEMENS

Data sheet

6AG4132-2GJ50-0XX3

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 XEON E3-1268LV3 4C/8T, 2.3 (3.3) GHz, 8 MB cache VT-D, AMT) RAID1 2x 240 GB SSD in removable frame; 8 GB DDR3 1600 DIMM; ECC; 1x PCIE (X16); 1x PCIE (X4); 3x PCI without expansion (HW) without operating system without expansion (software) AC 110/230V industrial power supply unit with NAMUR; Power supply cable USA

	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 \geq 500 GB, optional: 3.5" SATA \geq 1 TB; RAID1 2x 2.5" SATA \geq 320 GB; solid-state drive (SSD) \geq 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA \geq 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	
 Number of PCI slots 	3
Interfaces	3
Interfaces PROFIBUS/MPI	3
	3 2
PROFIBUS/MPI	3 2 Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622
PROFIBUS/MPI Number of industrial Ethernet interfaces	3 2 Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 2; 2x RJ45 (independent)
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PROFIBUS/MPI Number of industrial Ethernet interfaces Number of PROFINET interfaces USB port	3 2 Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 2; 2x RJ45 (independent) 3; Optional 4x USB 3.0
PROFIBUS/MPI Number of industrial Ethernet interfaces Number of PROFINET interfaces USB port Connection for keyboard/mouse	3 2 Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 2; 2x RJ45 (independent) 3; Optional 4x USB 3.0 USB / USB
PROFIBUS/MPI Number of industrial Ethernet interfaces Number of PROFINET interfaces USB port Connection for keyboard/mouse serial interface	3 2 Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 2; 2x RJ45 (independent) 3; Optional 4x USB 3.0 USB / USB 1x COM1 (RS 232), optional: 1x COM2 (RS 232)
PROFIBUS/MPI Number of industrial Ethernet interfaces Number of PROFINET interfaces USB port Connection for keyboard/mouse serial interface parallel interface	3 2 Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 2; 2x RJ45 (independent) 3; Optional 4x USB 3.0 USB / USB 1x COM1 (RS 232), optional: 1x COM2 (RS 232)
PROFIBUS/MPI Number of industrial Ethernet interfaces Number of PROFINET interfaces USB port Connection for keyboard/mouse serial interface parallel interfaces Video interfaces	3 2 Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 2; 2x RJ45 (independent) 3; Optional 4x USB 3.0 USB / USB 1x COM1 (RS 232), optional: 1x COM2 (RS 232) optional LPT1
PROFIBUS/MPI Number of industrial Ethernet interfaces Number of PROFINET interfaces USB port Connection for keyboard/mouse serial interface parallel interfaces Video interfaces • Graphics interface	3 2 Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 2; 2x RJ45 (independent) 3; Optional 4x USB 3.0 USB / USB 1x COM1 (RS 232), optional: 1x COM2 (RS 232) optional LPT1

— 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 field	S
 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 Emission of conducted and non-conducted interference 	100 A/m; to IEC 61000-4-8
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	LIN 01000-0-3, LIN 01000-0-4, 0101 11 22 01233 D, 1 00 01233 A
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	5 °C
● min. ● max.	5 °C 55 °C
max. 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	

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:

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