SIEMENS

Data sheet

6AG4131-2GN60-0BA6

SIMATIC IPC627D (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) Solid-state drive 240 GB; 320 GB HDD SATA (2.5") 16 GB DDR3 1600 DIMM; ECC; 2x PCI without expansion (HW) Windows 7 Ultimate 64 bit SP1, MUI (de, en, fr, es, it) SIMATIC IPC DiagMonitor enclosed 24 V DC industrial Power supply

Design Supply voltage Type of supply voltage Line frequency Rated value 50 Hz Rated value 60 Hz Mains buffering Mains/voltage failure stored energy time Processor Processor type Celeron C(2C/4T₁, 2 GHz, 8 M Chipset Craphic Graphic Graphics controller Drives Optical drives Hard disk 3.5" SAT₁ ≥ 320 GB the enclose byte in ree SSD Yes; ≥ 24 Memory Type of memory Main memory Capacity of main memory, max. Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Processor Processor Processor type Celeron C(2C/4T₁, 2 GHz, 8 M Chipset Celeron C(2C/4T₁, 2 GHz, 4 M Chipset Celeron C(2C/4T, 2 GHz, 4 M Chipset Celer	
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Type of supply voltage Line frequency Rated value 50 Hz Rated value 60 Hz Mains buffering Mains/voltage failure stored energy time Processor Processor type Celeron C (2C/4T, 2 GHz, 8 M Intel DHs Graphic Graphics controller Drives Optical drives Hard disk SSD Ves; ≥ 24 Memory Type of memory Main memory Capacity of main memory, max. Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Processor Processor type 1 (2 14 / 8 / 2 14 /	built-in unit
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Chipset Intel DH8 Graphic Graphics controller Intel HD graphics of Drives Optical drives DVD±R±f Hard disk 3.5" SAT/ Each SAT/ SAT/ Whemory Type of memory DDR3-16 Main memory 2 /4 /8 / Capacity of main memory, max. 16 Gbyte Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. 2 Mbyte; Hardware configuration Slots Interfaces PROFIBUS/MPI Optionally Number of PCI slots 2; Optionally Number of PROFINET interfaces 3; Optionally Number of PROFINET interfaces 4x USB 3 Connection for keyboard/mouse 5erial interface Intel HD graphics of Intel HD graphics of Saturation Subjective of Saturation Sub	
Graphic Graphics controller Intel HD graphics of graphics	G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) 4B Cache, AMT)
Graphics controller Drives Optical drives DVD±R±f Hard disk 3.5" SAT/ ≥ 320 GB the enclose byte in research	32C226 PCH
Drives Optical drives DVD±R±f Hard disk 3.5" SAT/ ≥ 320 GB the enclose byte in reference 2 / 4 / 8 / SSD Yes; ≥ 24 Memory DDR3-16 Main memory 2 / 4 / 8 / Capacity of main memory, max. 16 Gbyte Data areas and their retentivity 2 Mbyte; Retentive data area (incl. timers, counters, flags), max. 2 Mbyte; Hardware configuration Slots Slots 2x PCl; or retainer • Number of PCl slots 2; Optionally • Number of PCl slots 2; Optionally Interfaces PROFIBUS/MPI Optionally Number of industrial Ethernet interfaces 2; 2x RJ4 Number of PROFINET interfaces 3; Optionally USB port 4x USB 3 Connection for keyboard/mouse USB / US serial interface 1x COM1	
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Hard disk 3.5" SAT/ ≥ 320 GB the enclose byte in ref SSD Yes; ≥ 24 Memory Type of memory Main memory Capacity of main memory, max. 16 Gbyte Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Pardware configuration Slots Interfaces PROFIBUS/MPI Number of PCI slots Number of PROFINET interfaces USB port Connection for keyboard/mouse SION 3.5" SAT/ ≥ 320 GB the enclose byte in ref 2 / 4 / 8 / 2 / 6 / 6 / 2 / 4 / 8 / 2 / 6 / 6 / 2 / 7 / 6 / 2 / 7 / 6 / 2 / 8 / 6 / 2 / 8 / 6 / 2 / 8 / 6 / 2 / 9 / 9 / 2 / 9 / 9 / 2 / 9 / 9 / 2 / 9 / 9 / 2 / 9 / 9 / 2 / 9 / 9 / 2 / 9 / 9 / 2 / 9 / 9 / 2 / 9 / 9 / 9 / 2 / 9 / 9 / 9 / 2 / 9 / 9 / 9 / 2 / 9 / 9 / 9 / 2 / 9 / 9 / 9 / 2 / 9 / 9 / 9 / 2 / 9 / 9 / 9 / 2 / 9 / 9 / 9 / 2	
≥ 320 GB the enclose byte in ref SSD Yes; ≥ 24 Memory Type of memory Main memory Capacity of main memory, max. Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Pardware configuration Slots Interfaces PROFIBUS/MPI Number of PCI slots Number of PROFINET interfaces USB port Connection for keyboard/mouse SIDD SID SIDD SIDD SID	RW combi-drive, optional
Type of memory Main memory Capacity of main memory, max. Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Pardware configuration Slots Interfaces PROFIBUS/MPI Number of PROFINET interfaces USB port Connection for keyboard/mouse DDR3-16 2 / 4 / 8 / 2	A ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA 3; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within sure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB emovable drive bay
Type of memory Main memory Capacity of main memory, max. Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Pardware configuration Slots Interfaces PROFIBUS/MPI Number of PROFINET interfaces USB port Connection for keyboard/mouse PDR3-16 2 / 4 / 8 / 2 / 4 / 8 / 2 / 4 / 8 / 2 / 6 / 2 / 6 / 2 / 7 / 2 / 8 / 2 / 9 /	40 GB optional
Main memory Capacity of main memory, max. Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Pardware configuration Slots Interfaces PROFIBUS/MPI Number of PROFINET interfaces USB port Connection for keyboard/mouse Slots 2 x PCI; or retainer 2 y Coptionally 2 y Coptionally 3 y Coptionally 4 x USB 3 Connection for keyboard/mouse Slots 2 x PCI; or retainer 2 y Optionally 3 y Coptionally 4 y USB 3 Connection for keyboard/mouse Slots 2 x PCI; or retainer 2 y Coptionally 3 y Coptionally 4 y USB 3 Connection for keyboard/mouse Serial interface 1 x COM1	
Capacity of main memory, max. Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. 2 Mbyte; Hardware configuration Slots • free slots • Number of PCI slots • Number of PCI slots • Number of PCI slots 2; Optionally Number of industrial Ethernet interfaces PROFIBUS/MPI Number of PROFINET interfaces USB port Connection for keyboard/mouse serial interface 1x COM1	500 DIMM
Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. 2 Mbyte; Hardware configuration Slots • free slots • Number of PCI slots • Number of PCI slots • Number of PCI slots PROFIBUS/MPI Number of industrial Ethernet interfaces USB port Connection for keyboard/mouse serial interface 1x COM1	16 GB; ECC optional
Retentive data area (incl. timers, counters, flags), max. Hardware configuration Slots • free slots • Number of PCI slots • Number of PCI slots • Number of PCI slots PROFIBUS/MPI Number of industrial Ethernet interfaces USB port Connection for keyboard/mouse serial interface 2 Mbyte; 2 Mbyte; Ablastical Subjects of the properties of the p	
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 free slots 2x PCI; or retainer Number of PCI slots Number of PCI slots 2; Optional strict PROFIBUS/MPI Number of industrial Ethernet interfaces USB port Connection for keyboard/mouse serial interface 2x PCI; or retainer 2; Optional strict 3; Optional strict 4x USB 3 USB / US Serial interface 1x COM1 	
PROFIBUS/MPI Optionally Number of PROFINET interfaces USB port 4x USB 3 Connection for keyboard/mouse 1x COM1 Profined 2; Optionally Optionally Optionally Optionally Number of industrial Ethernet interfaces 3; Optionally Optionally Optionally Optionally Number of PROFINET interfaces 3; Optionally Option	
● Number of PCI slots Interfaces PROFIBUS/MPI Optionally Number of industrial Ethernet interfaces 2; 2x RJ4 Number of PROFINET interfaces 3; Optionally USB port 4x USB 3 Connection for keyboard/mouse USB / US serial interface 1x COM1	optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); with card
Interfaces PROFIBUS/MPI Number of industrial Ethernet interfaces 2; 2x RJ4 Number of PROFINET interfaces USB port 4x USB 3 Connection for keyboard/mouse serial interface 1x COM1	al
PROFIBUS/MPI Number of industrial Ethernet interfaces 2; 2x RJ4 Number of PROFINET interfaces 3; Optional USB port 4x USB 3 Connection for keyboard/mouse serial interface 1x COM1	al
Number of industrial Ethernet interfaces 2; 2x RJ4 Number of PROFINET interfaces 3; Options USB port 4x USB 3 Connection for keyboard/mouse USB / US serial interface 1x COM1	
Number of PROFINET interfaces USB port Connection for keyboard/mouse USB /	y onboard, isolated, max. 12 Mbit/s, compatible with CP 5622
Number of PROFINET interfaces USB port Connection for keyboard/mouse USB /	45 (independent)
Connection for keyboard/mouse USB / US serial interface 1x COM1	al
serial interface 1x COM1	3.0
	SB
parallel interface optional L	1 (RS 232), optional: 1x COM2 (RS 232)
	LPT1
Video interfaces	
• Graphics interface 1x Display	yPort and 1x DVI-I; 1x VGA via adapter cable (optional)
	45 (independent) 45 (independent) 48 al 48 al 48 al 48 al 58 al 59 al 60

Industrial Ethernet	
 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	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc.
electricity	to IEC 61000-4-2
Interference immunity against high-frequency electromagnet	tic fields
Interference immunity against high frequency	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-
radiation	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	1011/
 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
• Interference infiniting on signal cables 1 som	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	
Ambient temperature during operation	+5 °C up to 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 60068-2-6 	tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500 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, 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	81 mm; with DVD drive: 105 mm
Depth	301 mm; incl. mounting rail

last modified: