SIEMENS

Data sheet 6AG4112-2KD71-1FX3

SIMATIC IPC647D (Rack PC, 19", 2 HU); 2x Gbit Ethernet (IE/PN), RJ45; 1x DVI-I; 2x display ports; 1x COM 1; 2x PS/2; audio; 4x USB 3.0, incl. 1x internal; 3x USB 2.0; Temp. and fan monitoring; Watchdog, Card retainer XEON E3-1268LV3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache VT-D, AMT); mainboard without fieldbus RAID1, 1 TB (2x 1 TB HDD SATA, mirror disks), internal 0.5 g vibration, 5 G shock 16 GB DDR3 SD-RAM (2x 8 GB), ECC, Dual channel Bus module, 4 slots: 2x PCI, 2x PCIE X16; without HW expansions without expansion (HW); graphics onboard; Adapter cable DVI-1 according to VGA for onboard graphics Windows Server 2008 R2 Standard Edition incl. 5 clients, 64 bit, MUI (de, en, fr, es, it), SP1 without software 110/240V industrial power supply unit; with NAMUR, Power supply cable USA

rails; 19" mounting undant 100/240 V AC
undant 100/240 V AC
undant 100/240 V AC
undant 100/240 V AC
che); Core i5-4570TE ΓΕ (2C/4T, 2.4 GHz,
cs integrated into the l: 2x VGA or 2x DVI-
(1 TB HDD, mirror th PCle (x8) RAID
disks)
or mounted internally mounted at the front RAID configurations)
16) (4 lanes / 8 lanes (8 lanes); all
2x DisplayPort, 1x c USB, 2x Gigabit
ıg-in card necessary,
2.0 front, 1x USB 3.0

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Connection for keyboard/mouse	2x PS/2
serial interface	COM1: 1x RS 232, COM2 (optional): 1x RS 232
parallel interface	optional LPT1
Multimedia	
Audio In/Out	Yes
Microphone In	Yes
Video interfaces	
Graphics interface	2x DisplayPort and 1x DVI-I onboard; 1x VGA via DVI-VGA adapter cable (optional); graphics card PCIe (x16), Dual Head (2x VGA or 2x DVI-D), 1 GB graphics memory (optional)
Industrial Ethernet	
 Industrial Ethernet interface 	2x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes
Integrated Functions	
Monitoring functions	
Temperature monitoring	Yes
Watchdog	Yes
• Status LEDs	POWER, HDD, ETHERNET 1, ETHERNET 2, PROFIBUS / MPI, SF PROFINET, WATCHDOG, TEMP, FAN, HDD0 ALARM, HDD1 ALARM
● 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	ic 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	
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 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge
Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
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, FCC Class A, EN 61000-6-4, CISPR 22, EN 55022 Class B, EN 61000-3-2 Class D, EN 61000-3-3
Degree and class of protection	
IP (at the front)	IP41
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007
CSA approval	+A1:2011, noise immunity: EN 61000-6-2:2005)
CSA approval	Yes; Included in cULus
UL approval	Yes
CULus	Yes; UL 60950-1, file number E115352
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
EMC	CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005
Dust protection	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered
Marine approval	
 Germanischer Lloyd (GL) 	Yes; Only with SSD
 American Bureau of Shipping (ABS) 	Yes; Only with SSD

Bureau Veritas (BV)	Yes; Only with SSD
 Det Norske Veritas (DNV) 	Yes; Only with SSD
 Lloyds Register of Shipping (LRS) 	Yes; Only with SSD
Ambient conditions	
Ambient temperature during operation	
Ambient temperature during operation	0 50 °C no ODD operation, no HDD operation in swap frame, no hardware RAID controller; 0 45 °C no ODD operation, no hardware RAID controller, power loss of expansion cards in total < 55 W; 0 40 °C no hardware RAID controller, power loss of the expansion cards in total < 55 W; 0 35 °C no restrictions
Ambient temperature during storage/transportation	
• min.	-20 °C
● max.	60 °C
Relative humidity	
Relative humidity	tested to IEC 60068-78, DIN IEC 68-2-30: 5 % to 80 % at 25 °C (no condensation)
Vibrations	
Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6: 10 cycles, 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s² (0.5 g)
Shock testing	
Shock load during operation	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s^2 (5 g), 30 ms , $100 \text{ shocks per axis}$
Operating systems	
pre-installed operating system	Windows 7 Ultimate, multi-language (32-bit/64-bit), Windows 10 Enterprise 2015 LTSB, multi-language (64-bit), Windows 10 Enterprise 2016 LTSB, multi-language (64-bit), Windows Server 2008 R2 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2012 R2 Standard Edition incl. 5 clients, multi-language (64-bit); Windows Server 2016 Standard Edition incl. 5 clients, multi-language (64-bit)
Additional info on operating system	Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)
without operating system	Yes
Software	
SIMATIC Software	Optionally in package with SIMATIC WinCC or WinCC flexible
Dimensions	
Width	430 mm
Height	88 mm; 2U
Depth	444 mm

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last modified: