SIEMENS

Data sheet

6ES7647-6CD30-0AB0

No longer available SIMATIC IPC627C (Box PC), HD graphic onboard, 2x10/100/1000 Mbit/s Ethernet RJ45; 4 x USB V2.0 (high current); 1x serial (COM 1); RAID controller onboard; CompactFlash Drive No. 1 on front; Watchdog, temp./fan monitoring Core I3-330E (2C/4T, 2.13 GHz, HT, VT, 3 MB cache) 4 GB DDR3 1066 DIMM; AC 110/230V industrial power supply unit with NAMUR; Power supply cable Europe 2x PCI free 250 GB HDD SATA Windows 7 Ultimate 32 bit SP1, MUI (en,de,fr,it,es) without expansion (software)

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	Core i7-610E (2C/4T, 2.53 GHz, TB, HT, VT, AMT, 4MB cache); Core i3-330E (2C/4T, 2.13 GHz, HT, VT, 3MB cache); Celeron P4505 (2C/2T, 1.86 GHz, VT, 2MB cache);
Chipset	Intel QM57 Express Chipset
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
Optical drives	DVD±R±RW combi-drive, optional
Hard disk	3.5" SATA ≥ 250 GB, optional ≥ 500 GB; RAID1 2x 2.5" SATA ≥ 320 GB; all internal drives are vibration-damped
SSD	Yes; ≥ 240 GB optional
Memory	
Type of memory	DDR3-1066 DIMM
Main memory	1 / 2 / 4 / 8 GB; ECC optional
Capacity of main memory, max.	8 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	2x PCI; optional: 1x PCI & 1x PCIe (x16); with card retainer
 Number of PCI slots 	2
 Number of PCI slots 	1
 Number of compact flash slots 	1
Interfaces	
PROFIBUS/MPI	Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5611-A2
Number of industrial Ethernet interfaces	2; onboard
Number of PROFINET interfaces	3; Optional
USB port	4x USB 2.0 high speed/high current
Connection for keyboard/mouse	USB / USB
serial interface	COM1: 1x V.24 (RS 232)
parallel interface	optional LPT1
Video interfaces	
Graphics interface	DVI-I: VGA / DVI combined

e industrial Ethernet Interface — 100 Mbps — 100 Mbps — Yes — 100 Mbps — Yes — Yes — Protocols Pro	Industrial Ethernet	
— 100 Mbps	Industrial Ethernet	onboard 2v 10 / 100 / 1 000 Mbit D 145
Protocols (Ethernet) • TCPIP Yes • TCPIP Yes Interpreted fauncions • Temperature monitoring Yes • TCPIP Yes Washing functions • Temperature monitoring Yes • Washing functions Yes • Washing function via network Yes • Fan • Monitoring function via network Yes • Interference immunity against discharge of static electricity • Interference immunity against high-frequency electromagnetic feeds • Interference immunity against high-frequency • Interference immunity on signal cables > 30m • Interference immunity to magnetic fields at 50 Hz • Interference immunity to magnetic fields at 50 Hz • Interference immunity to magnetic fields at 50 Hz • Interference immunity to magnetic fields at 50 Hz • Interference immunity to magnetic fields at 50 Hz • Interference immunity to magnetic fields at 50 Hz • Interference immunity to magnetic fields at 50 Hz • Interference immunity to magnetic fields at 50 Hz • Interference immunity to magnetic fields at 50 Hz • Interference immunity to magnetic fields at 50 Hz • Interference immunity to magnetic fields at 50 Hz • Interference immunity to magnetic fields at 50 Hz • Interference immunity to magnetic fi		
Protocols (Ethernet) - TCP/IP - TCC/IP - TC	•	
Protocols (Ethernet) • TCPIP • TCPIP Bus diagnostics Intergrated Functions Monitoring functions • Temperature monitoring • Watchdog • Watchdog • Status LEDs • Wonting function view of the protocol	•	1 es
### Total Pin Pes Pe		
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Bus diagnostics Integrated Functions **Temperature monitoring** **Temperature monitoring** **Temperature monitoring** **Temperature monitoring** **Vachdong** **Status LEDS** **Fan** **Nontroing function via network** Optional **EMC** Interference immunity against discharge of static electricity* **Interference immunity against discharge of static electricity* **Interference immunity against high-frequency electromagnetic feets* **Interference immunity on supply cables* **Interference immunity on supply cables* **Interference immunity on signal cables 30m* **Interference immunity against voltage surge* **Symmetric interference* **Jetterference immunity to magnetic felds at 50 Hz2 **Interference immunity to magnetic felds at 50 Hz2 **Interference emission via line/AC current cables* **Degree and class of protection* IP degree of protection* IP degree of protection* IP (at the front)	-	Yes
Monitoring functions * Temperature monitoring * Ves * Ves * Ves * Status LEDs * Pes * Fan * Monitoring function via network * Optional EMC Interference immunity against discharge of static electricity * Interference immunity against discharge of static electricity * Interference immunity against discharge of static electricity * Interference immunity against high-frequency electromagnetic fields * Interference immunity against high-frequency electromagnetic fields * Interference immunity against high-frequency electromagnetic fields * Interference immunity against high-frequency radiation * Interference immunity to acable-borne interference * Interference immunity to acable-borne interference * Interference immunity to supply cables * Interference immunity on signal cables > 30m * Interference immunity on sig	Interrupts/diagnostics/status information	
Monitoring functions Temperature monitoring Yes Watchdog Yes Status LEDs Yes Fan Yes Monitoring function via network Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity against high frequency Interference immunity against high frequency electromagnetic fields Interference immunity against high frequency electromagnetic fields Interference immunity or against high frequency Interference immunity or again cables > 30m Interference immunity or again cables > 30m Interference immunity on signal cables > 30m Interference immunity against voltage surge Symmetric interference Symmetric inte	Bus diagnostics	Yes
Temperature monitoring Yes	Integrated Functions	
Watchdog Yes Yes Yes Yes Yes	Monitoring functions	
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Fan	Watchdog	Yes
Monitoring function via network Monitoring function via network Interference immunity against discharge of static electricity. Interference immunity against discharge of static electricity. Interference immunity against high-frequency electromagnetic electricity. Interference immunity against high-frequency electromagnetic radiation. Interference immunity against high-frequency electromagnetic fields Interference immunity against high-frequency electromagnetic fields Interference immunity of cable-borne interference Interference immunity to cable-borne interference Interference immunity on supply cables Interference immunity on signal cables >30m Interference immunity on sig	Status LEDs	Yes
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• Interference immunity on supply cables symmetric; 2 kV acc. to IEC 61000-4-5, surge asymmetric; 2 kV acc. to IEC 61000-4-5, surge asymmetric; 2 kV acc. to IEC 61000-4-5, surge asymmetric; 2 kV acc. to IEC 61000-4-5, surge, length > 30 m		KHZ - 80 MHZ, 80% AM acc. to IEC 61000-4-6
symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric 1 kV acc. to IEC 61000-4-5, surge, length > 30 m 1 lnterference immunity on signal cables < 30m 1 lt kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-5; surge asymmetric 1 kV acc. to IEC 61000-4-5; surge asymmetric 1 kV acc. to IEC 61000-4-5; surge symmetric 1 kV acc. to IEC 61000-4-5; surge asymmetric 1 kV acc. to IEC 61000-4-5;	·	.0.17
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Interference immunity on signal cables < 30m Interference immunity against voltage surge asymmetric interference symmetric interference symmetric interference symmetric interference Interference immunity to magnetic fields Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz Interference immunity to magnetic fields at 50 Hz Interference emission via line/AC current cables 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 degree of protection IP (at the front) IP (rear) IP (rear) IP (rear) IP (rear) IV (sear) CE mark Ves UL approval UL approval UL approval UL approval SCH (formerly C-TICK) Yes CE (FCC Yes CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kajiji Kyokai (Class NK) Yes Ambient conditions Ambient conditions Ambient temperature during operation	■ Interference immunity on signal cables >30m	
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Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference Interference emission via line/AC current cables Enterference emission via line/AC current cables		±2 kV acc. to IEC 61000-4-5, surge asymmetric
Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference Interference emission via line/AC current cables Enterference emission via line/AC current cables	symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
● Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference ● Interference emission via line/AC current cables Degree and class of protection IP degree of protection IP (at the front) IP (rear) IP (rear) Standards, approvals, certificates CE mark UL approval ● UL 508 CULus RCM (formerly C-TICK) KC approval FCC EMC EMC Germanischer Lloyd (GL) ● American Bureau of Shipping (ABS) ● Bureau Veritas (BV) ● Lloyds Register of Shipping (LRS) ● Nippon Kaiji Kyokai (Class NK) Ambient temperature during operation		
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 degree of protection IP (at the front) IP (rear) IP (at the front) IP (rear) Standards, approvals, certificates CE mark UL approval UL 508 CULUS RCM (formerly C-TICK) KC approval FCC EMC CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) EMC Det Norske Veritas (BV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Ambient temperature during operation		100 A/m; to IEC 61000-4-8
Interference emission via line/AC current cables Degree and class of protection IP degree of protection IP (at the front) IP (at the f		
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Nippon Kaiji Kyokai (Class NK) Ambient conditions Ambient temperature during operation	, ,	
Ambient conditions Ambient temperature during operation		
Ambient temperature during operation	Nippon Kaiji Kyokai (Class NK)	Yes
	Ambient conditions	
Ambient temperature during operation +5 °C up to 55 °C	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 to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s 2 (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 XP Prof. SP3, MUI; Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 2009 English on 8 GB CompactFlash; without operating system	
without operating system	Yes	
pre-installed operating system		
 Windows XP Professional 	Yes	
Windows 7	Yes; Ultimate 32 bit or 64 bit	
Software		
SIMATIC Software	Optional package with SIMATIC WinCC or WinAC RTX	
Dimensions		
Width	312 mm	
Height	80 mm; with DVD drive: 100 mm	
Depth	301 mm; incl. mounting rail	

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last modified: