

Product type designation

CP 1623
Communications processor CP 1623 PCI Express X1 (3, 3 V/12 V)
for connection to Industrial Ethernet (10/100/1000 Mbit/s) with 2-port
switch (RJ45) via HARDNET-IE S7 and S7-REDCONNECT
Operating system support see SIMATIC NET software released as of
SIMATIC NET CD V7.0 HF1



Transfer rate	
Transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s
Interfaces	
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	2
• for power supply	1
Type of electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port
• for power supply	2-pole terminal block
Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Type of voltage supply / optional external supply	Yes
Supply voltage	
• 1 / from backplane bus	3.3 V
• 2 / from backplane bus	12 V
• external	24 V
• external	10.5 ... 32 V

Relative symmetrical tolerance / at DC	
• at 3.3 V	9 %
• at 5 V	5 %
• at 12 V	8 %
• at 24 V	33 %
Consumed current	
• 1 / from backplane bus / at DC / maximum	0.85 A
• 2 / from backplane bus / at DC / maximum	0.4 A
• from external supply voltage / at DC / at 12 V / maximum	0.55 A
• from external supply voltage / at DC / at 24 V / maximum	0.3 A
Power loss [W]	7.6 W
Power loss [W] / in switch mode / maximum	7.2 W

Ambient conditions	
Ambient temperature	
• during operation	5 ... 55 °C
• during storage	-20 ... +60 °C
• during transport	-20 ... +60 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP00

Design, dimensions and weight	
Module format	PCI Express x1 (half length)
Width	18 mm
Height	111 mm
Depth	167 mm
Net weight	124 g

Product features, product functions, product components / general	
Number of plug-in cards of same design / plug-in / per PC station	4
Number of units / Note	-

Performance data	
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Performance data / open communication	
Software / for open communication / by means of SEND/RECEIVE / required	Yes, HARDNET-IE S7 (S7-1613)
Number of possible connections / for open communication / by means of SEND/RECEIVE / maximum	120

Performance data / S7 communication	
Software / for S7 communication / required	Yes, HARDNET-IE S7 (S7-1613)

Number of possible connections / for S7/PG communication / maximum	120
Number of possible connections / for optimized S7 communication / maximum	40

Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode	120
Number of configurable connections / per PC station	207

Performance data / PROFINET CBA

Software / for PROFINET CBA communication / required	Yes, PN CBA OPC server
Number of remote connection partners / with PROFINET CBA	228
Number of connections / with PROFINET CBA / total	10000

Product functions / management, configuration, engineering

Product function / MIB support	Yes
Protocol / is supported	
• SNMP v1	Yes
• SNMP v3	No
• DCP	Yes
• LLDP	No
Configuration software / required	Included in the scope of delivery of the required software product
Configuration software / for PROFINET CBA / required	Yes, SIMATIC iMAP
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher-level designation/location designation	Yes
• I&M2 - installation date	No
• I&M3 - comment	No
• I&M4 - signature	No
• I&M4 - OEM data	No

Product functions / Switch

Product feature / Switch	Yes
Product function / switch-managed	No
Product function / with IRT / PROFINET IO switch	No

Product functions / redundancy

Software / for redundancy function / required	Yes, HARDNET-IE S7-REDCONNECT for communication with SIMATIC S7 H systems
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Product functions / time

Product function / SICLOCK support	Yes
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Protocol / is supported / NTP	No
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Standards, specifications, approvals

Standard	
• for EMC • for safety / from CSA and UL • for emitted interference • for interference immunity	2004/108/EC CAN/CSA C22.2 & UL 60950-1, UL 1950 EN 61000-6-3, EN 61000-6-4 EN 61000-6-1, EN 61000-6-2
Certificate of suitability	
• CE marking • C-Tick	Yes Yes

Further information / Internet-Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx Download Manager • to website: Industry Online Support	http://www.siemens.com/snst http://www.siemens.com/simatic-net http://www.siemens.com/industrial-controls/mall http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com

Security information

Security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)
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