

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
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Interfaces

Number of electrical connections	
<ul style="list-style-type: none"> at the 1st interface / acc. to Industrial Ethernet 	2
<ul style="list-style-type: none"> for power supply 	1
Type of electrical connection	
<ul style="list-style-type: none"> at the 1st interface / acc. to Industrial Ethernet 	RJ45 port
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 1 / from backplane bus 	3.3 V
<ul style="list-style-type: none"> 2 / from backplane bus 	12 V
<ul style="list-style-type: none"> external 	24 V
<ul style="list-style-type: none"> external 	10.5 ... 32 V

Relative symmetrical tolerance / at DC	
<ul style="list-style-type: none"> • at 3.3 V • at 5 V • at 12 V • at 24 V 	9 % 5 % 8 % 33 %
Consumed current	
<ul style="list-style-type: none"> • 1 / from backplane bus / at DC / maximum • 2 / from backplane bus / at DC / maximum • from external supply voltage / at DC / at 12 V / maximum • from external supply voltage / at DC / at 24 V / maximum 	0.85 A 0.4 A 0.55 A 0.3 A
Power loss [W]	7.6 W
Power loss [W] / in switch mode / maximum	7.2 W

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport 	5 ... 55 °C -20 ... +60 °C -20 ... +60 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP00
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

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

Standard	<ul style="list-style-type: none"> • for EMC • for safety / from CSA and UL • for emitted interference • for interference immunity 	<p>2004/108/EC</p> <p>CAN/CSA C22.2 & UL 60950-1, UL 1950</p> <p>EN 61000-6-3, EN 61000-6-4</p> <p>EN 61000-6-1, EN 61000-6-2</p>
Certificate of suitability	<ul style="list-style-type: none"> • CE marking • C-Tick 	<p>Yes</p> <p>Yes</p>

Further information / Internet-Links

Internet-Link	<ul style="list-style-type: none"> • 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 	<p>http://www.siemens.com/snst</p> <p>http://www.siemens.com/simatic-net</p> <p>http://www.siemens.com/industrial-controls/mall</p> <p>http://www.siemens.com/industry/infocenter</p> <p>http://automation.siemens.com/bilddb</p> <p>http://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>
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Security information

Security information	<p>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)</p>
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