SIEMENS

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 power supply	Yes
supply voltage	
• 1 / from backplane bus	3.3 V
• 2 / from backplane bus	12 V
• external	24 V

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● 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 weights

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

further information / internet-Links

Internet-Link	
• to web page: selection aid TIA Selection Tool	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	http://www.siemens.com/industrial-controls/mall
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx-Download-Manager	http://www.siemens.com/cax
• to website: Industry Online Support	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)
last modified:	11/24/2020