

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) can be uploaded onto device 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 / according to Industrial Ethernet	2
• for power supply	1
type of electrical connection	
• at the 1st interface / according to Industrial Ethernet	RJ45 port
• of the backplane bus	PCI Express x1
• 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
• 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 / 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	
reference code	
• according to IEC 81346-2:2019	KEC
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	241.26 kg
• during manufacturing	33.23 kg
• during operation	207.97 kg

- after end of life

0.06 kg

further information / internet links

internet link

- to website: Selection guide for cables and connectors
- to web page: selection aid TIA Selection Tool
- to website: Industrial communication
- to web page: SiePortal
- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

- <https://support.industry.siemens.com/cs/ww/en/view/109766358>
- <https://www.siemens.com/tstcloud>
- <https://www.siemens.com/simatic-net>
- <https://sieportal.siemens.com/>
- <https://www.automation.siemens.com/bilddb>
- <https://www.siemens.com/cax>
- <https://support.industry.siemens.com>

security information

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Approvals / Certificates

General Product Approval

EMV

Environment

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