

### 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	
<ul style="list-style-type: none"> <li>at the 1st interface / according to Industrial Ethernet</li> <li>for power supply</li> </ul>	2 1
type of electrical connection	
<ul style="list-style-type: none"> <li>at the 1st interface / according to Industrial Ethernet</li> <li>of the backplane bus</li> <li>for power supply</li> </ul>	RJ45 port PCI Express x1 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	
<ul style="list-style-type: none"> <li>1 / from backplane bus</li> <li>2 / from backplane bus</li> <li>external</li> <li>external</li> </ul>	3.3 V 12 V 24 V 10.5 ... 32 V
relative symmetrical tolerance / at DC	
<ul style="list-style-type: none"> <li>at 3.3 V</li> <li>at 5 V</li> <li>at 12 V</li> <li>at 24 V</li> </ul>	9 % 5 % 8 % 33 %
consumed current	
<ul style="list-style-type: none"> <li>1 / from backplane bus / at DC / maximum</li> <li>2 / from backplane bus / at DC / maximum</li> <li>from external supply voltage / at DC / at 12 V / maximum</li> <li>from external supply voltage / at DC / at 24 V / maximum</li> </ul>	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"> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul>	5 ... 55 °C -20 ... +60 °C -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
<b>product features, product functions, product components / general</b>	
number of plug-in cards of same design / plug-in / per PC station	4
number of units / note	-
<b>performance data / open communication</b>	
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
<b>performance data / S7 communication</b>	
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
<b>performance data / multi-protocol mode</b>	
number of active connections / with multi-protocol mode	120
number of configurable connections / per PC station	207
<b>performance data / PROFINET CBA</b>	
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
<b>product functions / management, configuration, engineering</b>	
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
<b>product functions / switch</b>	
product feature / switch	Yes
product function / switch-managed	No
product function / with IRT / PROFINET IO switch	No
<b>product functions / redundancy</b>	
software / for redundancy function / required	Yes, HARDNET-IE S7-REDCONNECT for communication with SIMATIC S7 H systems
<b>product functions / time</b>	
product function / SICLOCK support	Yes
protocol / is supported / NTP	No
<b>standards, specifications, approvals</b>	
reference code	
• according to IEC 81346-2:2019	KEC
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
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

##### security information

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#### Approvals / Certificates

##### General Product Approval

[Declaration of Conformity](#)



##### EMV

##### Environment

[KC](#)

[Confirmation](#)



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