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Data sheet 6GK1162-3AA00

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, 100, 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	

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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

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● after end of life	0.06 kg

further information / internet links

internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://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 cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval

Declaration of Conformity	CE EG-Konf.	CCC	UKCA	EAC	China RoHS

General Product Approval	EMV	Environment
RCM	KC	EPD

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