SIEMENS

Data sheet 6GK1162-8AA00

Product type designation



Communications processor CP 1628 PCI Express X1 (3, 3 V/12 V) for connection to Industrial Ethernet (10/100/1000 Mbit/s) with 2-port switch (RJ45) and integrated security (firewall VPN) via HARDNET-IE S7 and S7-REDCONNECT Operating system support see SIMATIC NET software



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 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 /	95 %
during operation / maximum	
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 compo	onents / general
Number of plug-in cards of same design / plug-in /	4
per PC station	
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 /	120
maximum	
Performance data / S7 communication	
Software / for S7 communication / required	Yes, HARDNET-IE S7 (S7-1613)
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Number of possible connections / for S7/PG communication / maximum	120
Number of possible connections / for optimized S7 communication / maximum	64
Performance data / multi-protocol mode	
Number of active connections / with multi-protocol	120
mode	
Number of configurable connections / per PC station	207
Performance data / PROFINET CBA	
Software / for PROFINET CBA communication /	Yes, PN CBA OPC server
required	
Number of remote connection partners / with PROFINET CBA	228
Number of connections / with PROFINET CBA / total	10000
Product functions / management, configuration, eng	gineering
Product function / MIB support	Yes
Protocol / is supported	
• SNMP v1	Yes
• SNMP v3	Yes
• 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	
1&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 / Security	SIMATIC S7 H systems

Product function / with VPN connection	IPSec
Type of encryption algorithms / with VPN connection	AES-256, AES-192, AES-128, 3DES-168, DES-56
Type of authentication procedure / with VPN connection	Preshared key (PSK), X.509v3 certificates
Type of hashing algorithms / with VPN connection	MD5, SHA-1
Number of possible VPN tunnels	64
Number of possible connections / for S7 communication	
via ISO and VPN / with S7-REDCONNECT / maximum	64
via TCP and VPN / with S7-REDCONNECT / maximum	120
Number of available IP addresses / with VPN connection / maximum	16
Product functions / time	
Product function / SICLOCK support	Yes

Product functions / time	
Product function / SICLOCK support	Yes
Protocol / is supported / NTP	Yes

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

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Further information / Internet-Links

• to website: Industry Online Support

https://support.industry.siemens.com

Security information

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