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Data sheet 6GK1161-2AA01

product type designation

CP 1612 A2

Communications processor CP 1612 A2 PCI card (32-bit; 3.3/5 V universal keyed) for Connection to Industrial Ethernet (10/100/1000 Mbit/s) with RJ45 connection via SOFTNET S7 and SOFTNET PG Operating system support see SIMATIC NET software released as of SIMATIC NET CD 2008 SP2.

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	1
type of electrical connection	
● at the 1st interface / according to Industrial Ethernet	RJ45 port
supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	DC
supply voltage	
● 1 / from backplane bus	5 V
● 2 / from backplane bus	12 V
relative symmetrical tolerance / at DC	
● at 5 V	5 %
● at 12 V	5 %
consumed current	
● 1 / from backplane bus / at DC / maximum	0.45 A
● 2 / from backplane bus / at DC / maximum	0.5 A
power loss [W]	3.65 W
ambient conditions	
ambient temperature	
● during operation	0 ... 55 °C
● during storage	-10 ... +70 °C
● during transport	-10 ... +70 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
protection class IP	IP00
design, dimensions and weights	
module format	PCI
width	18 mm
height	59 mm
depth	140 mm
net weight	60 g
product features, product functions, product components / general	
number of plug-in cards of same design / plug-in / per PC station	2
number of units / note	-
performance data / open communication	

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software / for open communication / by means of SEND/RECEIVE / required	Yes, SOFTNET-IE S7 (64 conn.) / SOFTNET-IE S7 Lean (8 conn.)
number of possible connections / for open communication / by means of SEND/RECEIVE / maximum	64
performance data / S7 communication	
software / for S7 communication / required	Yes, SOFTNET-IE S7 (64 conn.) / SOFTNET-IE S7 Lean (8 conn.)
number of possible connections / for S7/PG communication / maximum	64
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	64
number of configurable connections / per PC station	207
performance data / PROFINET communication / as PN IO controller	
software / for PROFINET IO communication / required	Yes, SOFTNET-IE PN IO
number of PN IO devices / on PROFINET IO controller / operable / total	64
number of PN IO IRT devices / on PROFINET IO controller / operable	0
data volume	
● as user data for input variables / as PROFINET IO controller / maximum	4096 byte
● as user data for output variables / as PROFINET IO controller / maximum	4096 byte
● as user data for input variables per PN IO device / as PROFINET IO controller / maximum	1430 byte
● as user data for output variables per PN IO device / as PROFINET IO controller / maximum	1430 byte
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	No
protocol / is supported	
● SNMP v1	Yes
● SNMP v3	No
● DCP	Yes
● LLDP	Yes
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
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 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

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● 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)

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