SIEMENS

Data sheet   **6GK1161-2AA01**

Product type designation

CP 1612 A2

COMMUNICATION PROCESSOR CP 1612 A2 PCI-CARD (32 BIT; 3.3/5V UNIVERSAL KEYED) FOR CONNECT. TO IND. ETHERNET (10/100/1000MBIT/S) WITH RJ45 PORT VIA SOFTNET-S7 AND SOFTNET-PG SUPPORT FOR OPERATING SYSTEM SEE SIMATIC NET SW RELEASED FOR SIMATIC NET CD 2008 SP2 AND HIGHER

Transmission rate

Transfer rate	
• at the 1st interface	10 ... 1000 Mbit/s

Interfaces

Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	1
Type of electrical connection	
• at the 1st interface / acc. 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 / for DC	
• at 5 V	5 %
• at 12 V	5 %
Consumed current	
• 1 / from backplane bus / for DC / maximum	0.45 A
• 2 / from backplane bus / for DC / maximum	0.5 A
Active power loss	3.65 W

Permitted 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 weight

Module format	PCI
Width	18 mm
Height	59 mm
Depth	140 mm
Net weight	60 g
Number of plug-in cards of same design / plug-in / per PC station	2
Number of units / Note	-

Performance data

Performance data / open communication

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 / usable / total	64
Number of PN IO IRT devices / on PROFINET IO controller / usable	0
Amount of data	
● as user data for input variables / as PROFINET IO controller / maximum	4096 byte
● as user data for input variables / as PROFINET IO controller / maximum	4096 byte

• as user data for input variables per PN IO device / as PROFINET IO controller / maximum	1472 byte	
• as user data for output variables per PN IO device / as PROFINET IO controller / maximum	1472 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

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

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: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• 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/automation/net/catalog
• 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)
last modified:	09.03.2015