SIEMENS

Data sheet 6GK1161-6AA02

Product type designation

CP 1616

Communications processor CP 1616 PCI card (32 bit; 33/66M Hz; 3.3/5 V) with ASIC ERTEC 400 for connection to PROFINET IO with 4-port real-time switch (RJ45) via development kit DK-16XX PN IO; NCM PC



Transfer rate	
Transfer rate	100 Mbit/s
Interfaces	
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	4
• for power supply	1
Type of electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port
• for power supply	Low-voltage socket for hollow plug 3.5 mm (-) / 1.3 mm (+)
Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage	
• 1 / from backplane bus	5 V
• external	6 9 V
Relative symmetrical tolerance / at DC	
● at 5 V	5 %
• at 12 V	5 %

Consumed current	
• 1 / from backplane bus / at DC / maximum	0.8 A
 from external supply voltage / at DC / at 6 V / maximum 	0.65 A
 from external supply voltage / at DC / at 9 V / maximum 	0.45 A
Power loss [W]	4 W
Power loss [W] / in switch mode / maximum	4.1 W

Ambient conditions	
Ambient temperature	
during operation	5 70 °C
during storage	-40 +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 weight	
Module format	PCI
Width	18 mm
Height	107 mm
Depth	167 mm
Net weight	110 g

Product features, product functions, product components / general	
Number of plug-in cards of same design / plug-in /	1
per PC station	
Number of units / Note	-

Performance data

Performance data / PROFINET communication / as PN IO controller	
Software / for PROFINET IO communication /	No
required	
Number of PN IO devices / on PROFINET IO	128
controller / usable / total	
Number of PN IO IRT devices / on PROFINET IO	64
controller / usable	
Amount of data	
 as user data for input variables / as PROFINET 	8192 byte
IO controller / maximum	
• as user data for input variables / as PROFINET	8192 byte
IO controller / maximum	
as user data for input variables per PN IO	1430 byte
device / as PROFINET IO controller / maximum	

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

1430 byte

Performance data / PROFINET communication / as PN IO device	
Amount of data	
 as user data for input variables / as PROFINET IO device / maximum 	1430 byte
 as user data for input variables / as PROFINET IO device / maximum 	1430 byte
 as user data for input variables / for each sub- module as PROFINET IO device 	254 byte
 as user data for input variables / for each sub- module as PROFINET IO device 	254 byte
 as user data for the consistency area for each sub-module 	254 byte
Number of submodules / per PROFINET IO-Device	64
Product functions / management configuration one	

Product function / MIB support	Yes
Protocol / is supported	
• SNMP v1	Yes
• DCP	Yes
• LLDP	Yes
Configuration software / required	Included in scope of supply
Identification & maintenance function	
 I&M0 - device-specific information 	Yes
 I&M1 – higher-level designation/location 	Yes
designation	
I&M2 - installation date	Yes
• I&M3 - comment	Yes
• I&M4 - signature	Yes
● I&M4 - OEM data	Yes

Product functions / Diagnostics	
Product function	
 Web-based diagnostics 	Yes
 Port diagnostics 	Yes

Product functions / Switch	
Product feature / Switch	Yes
Product function / switch-managed	No
Product function / with IRT / PROFINET IO switch	Yes
Product functions / redundancy	
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Product functions / redundancy	
Software / for redundancy function / required	No
Product function	

Ring redundancy	Yes
Redundancy manager	Yes
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes

Standards, specifications, approvals	
Standard	
• for EMC	2004/108/EC
• for safety / from CSA and UL	CAN/CSA C22.2 & UL 60950-1
• 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

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

http://www.siemens.com/industrial-controls/mall

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

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