SIEMENS

Data sheet 6GK1161-6AA02

Product type designation



CP 1616

COMMUNICATION PROCESSOR CP 1616 PCI-CARD (32 BIT; 33/66MHZ; 3.3/5V) WITH ASIC ERTEC 400 FOR CONNECT. TO PROFINET IO WITH 4-PORT-REAL-TIME-SWITCH (RJ45) VIA DEVELOPMENT KIT DK-16XX PN IO; NCM PC

Transmission rate	
Transfer rate	
• at the 1st interface	10 100 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
Type of voltage supply / optional external supply	Yes
Supply voltage	
• 1 / from backplane bus	5 V
• external	6 9 V
Relative symmetrical tolerance / for DC	
● at 5 V	5 %
● at 12 V	5 %
Consumed current	
• 1 / from backplane bus / for DC / maximum	0.8 A
• from external supply voltage / for DC / at 6 V /	0.65 A

maximum

 from external supply voltage / for DC / at 9 V / maximum 	0.45 A
Active power loss	4 W
Active power loss / in switch mode / maximum	4.1 W

Permitted ambient conditions	
Ambient temperature	
during operation	5 70 °C
during storage	-40 +70 °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
Number of plug-in cards of same design / plug-in / per PC station	1
Number of units / Note	-

Performance data

Performance data / PROFINET communication / as	PN IO-Controller
Software / for PROFINET IO communication / required	No
Number of PN IO devices / on PROFINET IO controller / usable / total	128
Number of PN IO IRT devices / on PROFINET IO controller / usable	64
Amount of data	
 as user data for input variables / as PROFINET IO controller / maximum 	8192 byte
 as user data for input variables / as PROFINET IO controller / maximum 	8192 byte
 as user data for input variables per PN IO device / as PROFINET IO controller / maximum 	1433 byte
 as user data for output variables per PN IO device / as PROFINET IO controller / maximum 	1433 byte

Performance data / PROFINET communication / as PN IO-Device Amount of data • as user data for input variables / as PROFINET IO device / maximum 1433 byte

 as user data for input variables / as PROFINET lO device / maximum 	1433 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	
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

Product functions / Diagnosis	
Yes	
Yes	

Product functions / switch	
Product feature / Switch	Yes
Product function / switch-managed	No
Product function / with IRT / PROFINET IO switch	Yes

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	89/336/EEC

for safety / from CSA and UL
for emitted interference
for interference immunity
Certificate of suitability
CE marking
C-Tick
CAN/CSA C22.2 & UL 60950-1
EN 61000-6-3, EN 61000-6-4
EN 61000-6-1, EN 61000-6-2

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/automation/net/catalog

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

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