SIEMENS

Data sheet 6GK1161-6AA01

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	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

Permitted 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		
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 /	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 	1430 byte		
device / as PROFINET IO controller / maximum			



Performance data / PROFINET communication / as	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					
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 designation 	Yes				
I&M2 - installation date	Yes				
• I&M3 - comment	Yes				
• I&M4 - signature	Yes				
• I&M4 - OEM data	Yes				
Product functions / Diagnosis					
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					
Software / for redundancy function / required	No				
Product function					
Ring redundancy	Yes				
Redundancy manager	Yes				



Protocol / is supported / Media Redundancy Protocol (MRP)

Yes

Yes

Standards, specifications, approvals

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89/336/EEC • for EMC

• for safety / from CSA and UL CAN/CSA C22.2 & UL 60950-1

• for emitted interference EN 61000-6-3, EN 61000-6-4

EN 61000-6-1, EN 61000-6-2 • for interference immunity

Certificate of suitability

 CE marking Yes

• C-Tick

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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