# **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



Transmission rate	
Transfer rate	100 Mbit/s
Interfaces	
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	4
<ul><li>for power supply</li></ul>	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
<ul> <li>from external supply voltage / at DC / at 6 V / maximum</li> </ul>	0.65 A
<ul> <li>from external supply voltage / at DC / at 9 V / maximum</li> </ul>	0.45 A
Power loss [W]	4 W
Power loss [W] / in switch mode / maximum	4.1 W

Permitted ambient conditions		
Ambient temperature		
<ul><li>during operation</li></ul>	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	FMS-5613 supports up to two CP 5603 / CP 5613 A2 / CP 5614 A2 / CP 5623 / CP 5624 processors	

## 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	
<ul><li>as user data for input variables / as PROFINET</li></ul>	8192 byte
IO controller / maximum	
<ul><li>as user data for input variables / as PROFINET</li></ul>	8192 byte
IO controller / maximum	
<ul> <li>as user data for input variables per PN IO</li> </ul>	1430 byte
device / as PROFINET IO controller / maximum	
<ul> <li>as user data for output variables per PN IO</li> </ul>	1430 byte
device / as PROFINET IO controller / maximum	

Performance data / PROFINET communication / as	s PN IO-Device
Amount of data	
<ul> <li>as user data for input variables / as PROFINET</li> <li>IO device / maximum</li> </ul>	1430 byte
<ul> <li>as user data for input variables / as PROFINET</li> <li>IO device / maximum</li> </ul>	1430 byte
<ul> <li>as user data for input variables / for each sub- module as PROFINET IO device</li> </ul>	254 byte
<ul> <li>as user data for input variables / for each sub- module as PROFINET IO device</li> </ul>	254 byte
<ul> <li>as user data for the consistency area for each sub-module</li> </ul>	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
<ul> <li>I&amp;M1 – higher-level designation/location designation</li> </ul>	Yes
I&M2 - installation date	Yes
• I&M3 - comment	Yes
● I&M4 - signature	Yes
• I&M4 - OEM data	Yes
Product functions / Diagnosis	
Product function	
<ul> <li>Web-based diagnostics</li> </ul>	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
<ul> <li>Redundancy manager</li> </ul>	Yes

Protocol / is supported / Media Redundancy Protocol (MRP)

Yes

Yes

Yes

## Standards, specifications, approvals

#### Standard

for EMC

• for safety / from CSA and UL

• for emitted interference

• for interference immunity

Certificate of suitability

• CE marking

• C-Tick

2004/108/EC

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/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

#### Security information

Security information

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