SIEMENS

Data sheet   **6GK1161-6AA02**

product type designation	CP 1616
	Communications processor CP 1616 PCI card (32-bit; 33/66 MHz; 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 / according to Industrial Ethernet	4
● for power supply	1
type of electrical connection	
● at the 1st interface / according 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 weights	
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 / per PC	1

station	
number of units / note	-
performance data / PROFINET communication / as PN IO controller	
software / for PROFINET IO communication / required	No
number of PN IO devices / on PROFINET IO controller / operable / total	128
number of PN IO IRT devices / on PROFINET IO controller / operable	64
data volume	
● as user data for input variables / as PROFINET IO controller / maximum	8192 byte
● as user data for output variables / as PROFINET IO controller / maximum	8192 byte
● as user data for input variables per PN IO device / as PROFINET IO controller / maximum	1430 byte
● 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	
data volume	
● as user data for input variables / as PROFINET IO device / maximum	1430 byte
● as user data for output 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 output 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, engineering	
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 / 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	
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

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