

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	
<ul style="list-style-type: none"> as user data for input variables / as PROFINET IO controller / maximum 	8192 byte
<ul style="list-style-type: none"> as user data for output variables / as PROFINET IO controller / maximum 	8192 byte
<ul style="list-style-type: none"> as user data for input variables per PN IO device / as PROFINET IO controller / maximum 	1430 byte
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> as user data for input variables / as PROFINET IO device / maximum 	1430 byte
<ul style="list-style-type: none"> as user data for output variables / as PROFINET IO device / maximum 	1430 byte
<ul style="list-style-type: none"> as user data for input variables / for each sub-module as PROFINET IO device 	254 byte
<ul style="list-style-type: none"> as user data for output variables / for each sub-module as PROFINET IO device 	254 byte
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> SNMP v1 	Yes
<ul style="list-style-type: none"> DCP 	Yes
<ul style="list-style-type: none"> LLDP 	Yes
configuration software / required	Included in scope of supply
identification & maintenance function	
<ul style="list-style-type: none"> I&M0 - device-specific information 	Yes
<ul style="list-style-type: none"> I&M1 - higher level designation/location designation 	Yes
<ul style="list-style-type: none"> I&M2 - installation date 	Yes
<ul style="list-style-type: none"> I&M3 - comment 	Yes
<ul style="list-style-type: none"> I&M4 - signature 	Yes
<ul style="list-style-type: none"> I&M4 - OEM data 	Yes
product functions / diagnostics	
product function	
<ul style="list-style-type: none"> web-based diagnostics 	Yes
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> ring redundancy 	Yes
<ul style="list-style-type: none"> redundancy manager 	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
standards, specifications, approvals	
standard	
<ul style="list-style-type: none"> for EMC 	2004/108/EC
<ul style="list-style-type: none"> for safety / from CSA and UL 	CAN/CSA C22.2 & UL 60950-1
<ul style="list-style-type: none"> for emitted interference 	EN 61000-6-3, EN 61000-6-4
<ul style="list-style-type: none"> for interference immunity 	EN 61000-6-1, EN 61000-6-2

certificate of suitability	
<ul style="list-style-type: none"> • CE marking • C-Tick 	<p>Yes</p> <p>Yes</p>
further information / internet links	
internet link	
<ul style="list-style-type: none"> • to web page: selection aid TIA 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 	<p>http://www.siemens.com/tia-selection-tool</p> <p>http://www.siemens.com/simatic-net</p> <p>http://www.siemens.com/industrial-controls/mall</p> <p>http://www.siemens.com/industry/infocenter</p> <p>http://automation.siemens.com/bilddb</p> <p>http://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>
security information	
security information	<p>Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)</p>

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