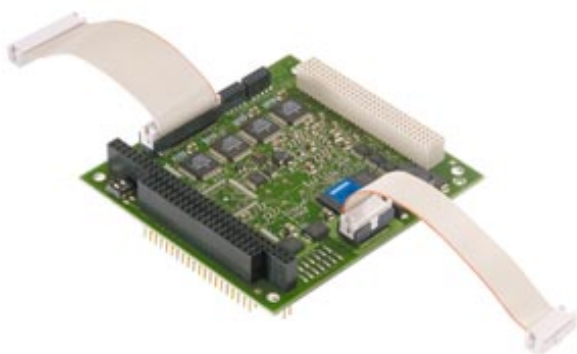


Product type designation

CP 1604

COMMUNICATION PROCESSOR CP 1604 PC/104 PLUS CARD
(32 BIT; 33/66MHZ; 3.3/5V) WITH ASIC ERTEC 400 FOR
CONNECTING TO PROFINET IO WITH 4-PORT-REAL-TIME-
SWITCH 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
- for power supply

4

1

Type of electrical connection

- at the 1st interface / acc. to Industrial Ethernet
- for power supply

RJ45 port via connection board

4-pole terminal block through power supply board

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
- external

5 V

24 V

• Note	optional external power supply and external supply voltage alternatively via power supply board (optional accessory)
Relative symmetrical tolerance / at DC	
• at 5 V	5 %
• at 24 V	20 %
Consumed current	
• 1 / from backplane bus / at DC / maximum	0.8 A
• from external supply voltage / at DC / at 24 V / maximum	0.3 A
Active power loss	4 W
Active power loss / in switch mode / maximum	4.1 W

Permitted ambient conditions

Ambient temperature	
• during operation	5 ... 60 °C
• during storage	-20 ... +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	PC/104-Plus
Width	90 mm
Height	24 mm
Depth	95 mm
Net weight	110 g
Mounting type	Screw mounting
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
- as user data for output variables per PN IO device / as PROFINET IO controller / maximum

1433 byte

1433 byte

Performance data / PROFINET communication / as PN IO-Device

Amount of data

- as user data for input variables / as PROFINET IO device / maximum
- as user data for input variables / as PROFINET IO device / maximum
- as user data for input variables / for each sub-module as PROFINET IO device
- as user data for input variables / for each sub-module as PROFINET IO device
- as user data for the consistency area for each sub-module

1433 byte

1433 byte

254 byte

254 byte

254 byte

Number of submodules / per PROFINET IO-Device

64

Product functions / management, configuration

Product function / MIB support

Yes

Protocol / is supported

- SNMP v1
- DCP
- LLDP

Yes

Yes

Yes

Configuration software / required

Included in scope of supply

Identification & maintenance function

- I&M0 - device-specific information
- I&M1 – higher-level designation/location designation
- I&M2 - installation date
- I&M3 - comment
- I&M4 - signature

Yes

Yes

Yes

Yes

Yes

Product functions / Diagnosis

Product function

- Web-based diagnostics
- Port diagnostics

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	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

Accessories

accessories	optional: Connection board for CP 1604, power supply board for CP 1604, HARDNET-IE DK (development kit)
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Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	http://www.siemens.com/industrial-controls/mall
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

Security information

Security information	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)
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last modified:

24.09.2015