

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	
• at the 1st interface	10 ... 100 Mbit/s
Interfaces	
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	4
• for power supply	1
Design of the electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port
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	5 V
• external	6 ... 9 V
Relative symmetrical tolerance / for DC	
• at 5 V	5 %
• at 12 V	5 %

Consumed current	
• 1 / from backplane bus / for DC / maximum	0.8 A
• from external supply voltage / for DC / at 6 V / maximum	0.65 A
• from external supply voltage / for DC / at 9 V / maximum	0.45 A
Active power loss	4 W
Active power loss / in switch mode / maximum	4.1 W

Permitted ambient conditions

Ambient temperature	
• during operation	5 ... 70 °C
• during storage	-40 ... +70 °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 / 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	1433 byte
• as user data for output variables per PN IO device / as PROFINET IO controller / maximum	1433 byte

Performance data / PROFINET communication / as PN IO-Device

Amount of data	
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• as user data for input variables / as PROFINET IO device / maximum	1433 byte
• as user data for input variables / as PROFINET IO device / maximum	1433 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
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

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
• Media Redundancy Protocol (MRP)	Yes

Standards, specifications, approvals

Standard	
• for EMC	89/336/EEC
• for safety / from CSA and UL	CAN/CSA C22.2 & UL 60950-1

- for emitted interference
- for interference immunity

Certificate of suitability

- CE marking
- C-Tick

last modified:

EN 61000-6-3, EN 61000-6-4

EN 61000-6-1, EN 61000-6-2

Yes

Yes

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