

Product type designation

CP 1626

Communications processor CP 1626 PCI Express X1 to Connection to PROFINET IO as Controller and Device with Power and Standard machine support



Transfer rate

Transfer rate	100 Mbit/s
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Interfaces

Number of electrical connections	
<ul style="list-style-type: none"> at the 1st interface / acc. to Industrial Ethernet 	2
<ul style="list-style-type: none"> at the 2nd interface / acc. to Industrial Ethernet 	2
<ul style="list-style-type: none"> for power supply 	1
Type of electrical connection	
<ul style="list-style-type: none"> at the 1st interface / acc. to Industrial Ethernet 	RJ45 port
<ul style="list-style-type: none"> at the 2nd interface / acc. to Industrial Ethernet 	RJ45 port
<ul style="list-style-type: none"> for power supply 	2-pin plug-in terminal with push-in spring connection

Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage	DC
Supply voltage	
<ul style="list-style-type: none"> 1 / from backplane bus 	3.3 V
<ul style="list-style-type: none"> 2 / from backplane bus 	12 V
<ul style="list-style-type: none"> external 	24 V

<ul style="list-style-type: none"> external 	10.5 ... 32 V
Relative symmetrical tolerance / at DC	
<ul style="list-style-type: none"> at 3.3 V at 12 V 	9 % 8 %
Consumed current	
<ul style="list-style-type: none"> 1 / from backplane bus / at DC / maximum 2 / from backplane bus / at DC / maximum from external supply voltage / at DC / at 12 V / maximum from external supply voltage / at DC / at 24 V / maximum 	2.1 A 0.1 A 0.8 A 0.4 A
Power loss [W]	8.1 W
Power loss [W] / in switch mode / maximum	9.6 W

Ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> during operation during storage during transport 	0 ... 70 °C -20 ... +60 °C -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 Express x1 (half length)
Width	21.6 mm
Height	126.3 mm
Depth	180.5 mm
Net weight	110 g

Product features, product functions, product components / general	
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	Included in the scope of supply
Number of PN IO devices / on PROFINET IO controller / usable / total	256
Number of PN IO IRT devices / on PROFINET IO controller / usable	64
Amount of data	
<ul style="list-style-type: none"> as user data for input variables / as PROFINET IO controller / maximum 	100000 byte

• as user data for input variables / as PROFINET IO controller / maximum	100000 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

Amount of data	
• as user data for input variables / as PROFINET IO device / maximum	1430 byte
• as user data for input variables / as PROFINET IO device / maximum	1430 byte
• as user data for input variables / for each sub-module as PROFINET IO device	1024 byte
• as user data for input variables / for each sub-module as PROFINET IO device	1024 byte
• as user data for the consistency area for each sub-module	1024 byte
Number of submodules / per PROFINET IO-Device	512

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

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: Information and Download Center	http://www.siemens.com/industry/infocenter
• 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	<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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