

Product-type designation	
 COMMUNICATIONSPROCESSOR CP 1628 PCI EXPRESS X1 (3.3V/12V) FOR CONNECTING TO IND.ETHERNET(10/100/1000MBIT/S) WITH 2-PORT-SWITCH (RJ45) AND INTEGRATED SECURITY (FIREWALL VPN) VIA HARDNET-IE S7 AND S7-REDCONNECT SUPPORT FOR OPERATING SYSTEM SEE SIMATIC NET SW	
Transmission rate	
Transfer rate / at the interface 1	10 ... 1000 Mbit/s
Interfaces	
Number of electrical connections	
• at interface 1 / in accordance with Industrial Ethernet	2
• for power supply	1
Design of electrical connection	
• at interface 1 / in accordance with Industrial Ethernet	RJ45 port
Supply voltage, current consumption, power loss	
Type of / supply voltage	DC
Type of power supply / optional external supply	Yes
Supply voltage	
• 1 / from backplane bus	3.3 V
• 2 / from the backplane bus	12 V
• external	24 V
Relative symmetrical tolerance	
• at 3.3 V / with DC	9 %
• at 5 V / with DC	5 %
• at 12 V / with DC	8 %
• at 24 V / with DC	33 %

Consumed current	
• 1 / from backplane bus / with DC / maximum	0.85 A
• 2 / from backplane bus / with DC / maximum	0.4 A
• from external supply voltage	
• at 12 V / with DC / max.	0.55 A
• at 24 V / with DC / maximum	0.3 A
Resistive loss	7.6 W
• in switch mode / maximum	7.2 W
Permitted ambient conditions	
Ambient temperature	
• during operating	5 ... 55 °C
• during storage	-20 ... +60 °C
• during transport	-20 ... +60 °C
Relative humidity / at 25 °C / without condensation / during operating / maximum	95 %
Protection class IP	IP00
Design, dimensions and weight	
Module format	PCI Express x1 (half length)
Width	18 mm
Height	111 mm
Depth	167 mm
Net weight	124 g
Product properties, functions, components / general	
Number of plug-in cards in the same design / can be plugged in / per PC station	4
Number of modules / note	-
Performance data	
Performance data / open communication	
Software / for open communication / by means of SEND/RECEIVE / required	Yes, HARDNET-IE S7 (S7-1613)
Number of possible connections / for open communication / by means of SEND/RECEIVE / maximum	120
Performance data / S7 communication	
Software / for S7 communication / required	Yes, HARDNET-IE S7 (S7-1613)
Number of possible connections	
• for S7/PG communication / maximum	120
• for optimized S7 communication / maximum	64
Performance data / multi-protocol mode	
Number of active connections / with multiprotocol mode	120
Number of configurable connections / per PC station	207
Performance data / PROFINET CBA	

Software / for PROFINET CBA communication / required	Yes, PN CBA OPC server
Number of remote connection partners / with PROFINET CBA	228
Number of connections / with PROFINET CBA / total	10000
Product functions / management, configuration	
Product function / MIB support	Yes
Protocol / is supported	
• SNMP v1	Yes
• SNMP v3	Yes
• DCP	Yes
Configuration software	
• for PROFINET CBA / required	Yes, SIMATIC iMAP
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher level designation/location designation	Yes
Product functions / switch	
Product feature / switch	Yes
Product function	
• switch-managed	No
• for IRT / PROFINET IO switch	No
Product functions / Redundancy	
Software / for redundancy function / required	Yes, HARDNET-IE S7-REDCONNECT for communication with SIMATIC S7 H systems
Product functions / Security	
Design of the firewall	stateful inspection
Product function / with VPN connection	IPSec
Type of encryption algorithms / with VPN connection	AES-256, AES-192, AES-128, 3DES-168, DES-56
Type of authentication procedure / with VPN connection	Preshared key (PSK), X.509v3 certificates
Type of hashing algorithms / with VPN connection	MD5, SHA-1
Number of possible VPN tunnels	64
Number of possible connections / for S7 communication	
• via ISO and VPN / with S7-REDCONNECT / maximum	64
• via TCP and VPN / with S7-REDCONNECT / maximum	120
Number of available IP addresses / with VPN connection / maximum	16
Product functions / Time	
Product function / SICLOCK support	Yes
Protocol / is supported / NTP	Yes
Standards, specifications, approvals	
Standard	
• for EMC	2004/108/EC
• for safety / of CSA and UL	CAN/CSA C22.2 & UL 60950-1, UL 1950

- for emitted interference
- for interference immunity

Verification of suitability

- CE mark
- C-Tick

letzte Änderung:

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

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

Yes

Yes

Jul 21, 2014