SIEMENS

Product data sheet **6GK7443-1EX20-0XE0**

COMMUNICATIONSPROCESSOR CP443-1 FOR
CONNECTING SIMATIC S7-400 TO INDUST. ETHERN. VIA ISO,
TCP/IP AND UDP, S7-COMM., FETCH/WRITE,
SEND/RCV WITH AND W/O RFC1006,
MULTICAST, PROFINET IO- CONTROLLER,
DHCP, SNMP V2, WEB-, DIAGNOS.,
INITIALISATION VIA LAN,
ACCESS PROTECTION VIA IP-ACCESS LIST,
INTEGRATED REAL-TIME SWITCH ERTEC 400,
2XRJ45 CONNECT. FOR LAN WITH 10/100 MBIT/S

Transmission rate	
Transfer rate / at the interface 1	10 … 100 Mbit/s
Interfaces	
Number of electrical connections / at interface 1 / in accordance with Industrial Ethernet	2
Supply voltage, current consumption, power loss	
Type of voltage / of supply voltage	DC
Power supply / 1 / from backplane bus	5 V
Relative symmetrical tolerance / at 5 V / with DC	5 %
Consumed current / from backplane bus / at 5 V / for DC / Typical	1.4 A
Resistive loss	8.6 W
Permitted ambient conditions	
Ambient temperature	
• during operating	0 … 60 °C
• during storage	-40 … +70 °C
• during transport	-40 … +70 °C
Relative humidity	
• at 25 °C / without condensation / during operating / maximum	95 %
Protection class IP	IP20
Design, dimensions and weight	
Width	25 mm

Height	290 mm
Depth	210 mm
Net weight	0.7 kg
Product properties, functions, components / general	
Number of units	
• per CPU / maximum	14
Performance data / open communication	
Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	64
Data volume	
• as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum	8 Kibyte
• as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum	8 Kibyte
• as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum	8 Kibyte
• as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum	2 Kibyte
Number of possible connections / for open communication / by means of T blocks / maximum	64
Data volume / as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum	1452 byte
Performance data / S7 communication	
Number of possible connections / for S7 communication	
• maximum	128
• with PG connections / maximum	2
Performance data / multi-protocol mode	
Number of active connections / with multiprotocol mode	128
Performance data / PROFINET communication / as PN IO-Controller	
Number of PN IO-Devices / on PROFINET IO-Controller / usable / total	128
Number of PN IO IRT-Devices / on PROFINET IO-Controller / usable	32
Number of external PN IO lines / with PROFINET / per rack	4
Amount of data	
• as useful data for input variables / as PROFINET IO controller / maximum	4 Kibyte
• as useful data for input variables / with PROFINET IO controller / maximum	4 Kibyte
• as useful data for input variables per PN IO device / with PROFINET IO controller / maximum	240 byte
• as useful data for output variables per PN IO device / with PROFINET IO controller / maximum	240 byte

Product functions / management, configuration	
Product function / MIB support	Yes
Protocol / is supported	
• SNMP v1	Yes
• DCP	Yes
• LLDP	Yes
Product functions / Diagnosis	
Product function / Web-based diagnostics	Yes
Product functions / switch	
Product feature / switch	Yes
Product function	
• switch-managed	No
• for IRT / PROFINET IO switch	Yes
• Configuration with STEP 7	Yes
Product functions / Redundancy	
Product function	
• Ring redundancy	Yes
• Redundancy manager	Yes
• MRP redundancy protocol	Yes
Product functions / Security	
Product function	
• ACL - IP-based	Yes
• switchoff of non-required services	Yes
• blocking of communication via physical ports	Yes
• log file for unauthorized access	No
Product functions / Time	
Product function	
• SICLOCK support	Yes
• pass on time synchronization	Yes
Protocol / is supported / NTP	Yes
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