# **SIEMENS**

#### **Product data sheet** 6GK7443-1GX20-0XE0



COMMUNICATIONS PROCESSOR CP 443-1 ADVANCED FOR CONNECTING SIMATIC S7-400CPU TO INDUSTRIAL ETHERNET: PROFINET IO-CONTROLLER WITH RT AND IRT,

MRP.

PROFINET CBA TCP/IP,ISO,UDP,S7-COM,S5-COMP. COM.(SEND/RECEIVE)W.FETCH/WRITE WITH AND W/O RFC 1006, MULTICAST DIAGNOSTIC EXPANSIONS, SNMP, DHCP FTP CLIENT/SERVER, E-MAIL, DATA STORAGE ON C-PLUG, PROFINET-SS 4XRJ45(10/100 MBIT) SWITCHED,

GIGABIT-SS 1XRJ45 (10/100/1000 MBIT)

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- at the interface 1 10 ... 1000 Mbit/s
- at the interface 2 10 ... 100 Mbit/s

#### Interfaces

Number of electrical connections

- at interface 1 / in accordance with Industrial Ethernet 1
- at interface 2 / in accordance with Industrial Ethernet 4

design of the removable storage / C-PLUG Yes

### Supply voltage, current consumption, power loss

Type of voltage / of supply voltage Power supply / 1 / from backplane bus 5 V

5 % Relative symmetrical tolerance / at 5 V / with DC

Consumed current / from backplane bus / at 5 V / for DC / Typical 1.8 A

Resistive loss 7.25 W

## Permitted ambient conditions

Ambient temperature

- 0 ... 60 °C · during operating
- -40 ... +70 °C • during storage
- -40 ... +70 °C during transport

Relative humidity

DC

• 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	
<ul> <li>as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	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 / IT functions	
Number of possible connections	
• as client / by means of FTP / maximum	20
• as server	
• by means of FTP / maximum	10
• by means of HTTP / maximum	4
as e-mail client / maximum	1
Amount of data / as useful data for e-mail / maximum	8 Kibyte
Storage capacity / of user memory	

as flash memory file system	30 Mibyte
• as RAM	16 Mibyte
Memory capacity / of the user memory / additionally buffered as RAM via central backup battery	512 Kibyte
Number of possible write cycles / flash memory cells	100000
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	
<ul> <li>as useful data for input variables / as PROFINET IO controller / maximum</li> </ul>	4 Kibyte
<ul> <li>as useful data for input variables / with PROFINET IO controller / maximum</li> </ul>	4 Kibyte
<ul> <li>as useful data for input variables per PN IO device / with PROFINET IO controller / maximum</li> </ul>	240 byte
<ul> <li>as useful data for output variables per PN IO device / with PROFINET IO controller / maximum</li> </ul>	240 byte
Performance data / PROFINET CBA	
Number of remote connection partners / with PROFINET CBA	64
Number of connections / with PROFINET CBA / total	600
Amount of data	
<ul> <li>as useful data for digital inputs / with PROFINET CBA / maximum</li> </ul>	8 Kibyte
<ul> <li>as useful data for digital outputs / in the case of PROFINET CBA / max.</li> </ul>	8 Kibyte
as useful data for arrays and data types	
<ul> <li>in the case of acyclic transmission / with PROFINET CBA / maximum</li> </ul>	8 Kibyte
<ul> <li>in the case of cyclic transmission / with PROFINET CBA / maximum</li> </ul>	250 byte
<ul> <li>in the case of local interconnection / with PROFINET CBA / maximum</li> </ul>	2400 byte
Performance data / PROFINET CBA / remote connection / with acyclic transmission	
Updating time / of the remote interconnections / in the case of acyclic transmission / with PROFINET CBA	100 ms
Number of remote connections to input variables / with acyclic transmission / with PROFINET CBA / maximum	150
Number of remote connections to output variables / with acyclic transmission / with PROFINET CBA / maximum	150
Amount of data	
<ul> <li>as useful data for remote interconnections with input variables / in the case of acyclic transmission / with PROFINET CBA</li> </ul>	8 Kibyte

Sibyte
ms
0
0
00 byte
00 byte
0 ms
0
Cibyte
0
00 byte
0
00 byte
s
s
s

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	
<ul> <li>password protection for Web applications</li> </ul>	Yes
ACL - IP-based	Yes
ACL - IP-based for PLC/routing	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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