

Siemens 6GK7443-1EX30-0XE0 Manual

Brand	Siemens
Product Series	Siemens
Product Type	designation CP 443-1

Description

6GK7443-1EX30-0XE0

Product type designation CP 443-1

Communications processor CP 443-1; 2x 10/100 Mbit/s (IE switch);
RJ45 ports; ISO; TCP; UDP; PROFINET IO controller; S7
communication; Open communication (SEND/ RECEIVE); S7
routing; IP configuration via DHCP/ Block; IP Access Control List;
Time synchronization; extended web diagnostics; Fast Startup;
Support for PROFinergy;

Transfer rate

Transfer rate

- at the 1st interface 10 ... 100 Mbit/s

Interfaces

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Number of interfaces / acc. to Industrial Ethernet 2

Number of electrical connections

- at the 1st interface / acc. to Industrial Ethernet 2

Type of electrical connection

- at the 1st interface / acc. to Industrial Ethernet RJ45 port

design of the removable storage / C-PLUG No

Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage DC

Supply voltage / 1 / from backplane bus 5 V

Relative symmetrical tolerance / at DC

- at 5 V 5 %

Consumed current

- from backplane bus / at DC / at 5 V / typical 1.4 A

Power loss [W] 7.25 W

Ambient conditions

Ambient temperature

- during operation 0 ... 60 °C
- during storage -40 ... +70 °C
- during transport -40 ... +70 °C

Relative humidity

- at 25 °C / without condensation / during
operation / maximum

95 %

Protection class IP IP20

Design, dimensions and weights

Module format Compact module S7-400 single width

Width 25 mm

Height 290 mm

Depth 210 mm

Net weight 0.7 kg

Product features, product functions, product components / general

Number of units

- per CPU / maximum 14
- Note max. 4 as PN IO ctrl.

Performance data / open communication

Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum

64

Amount of data

- 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

Amount of data

- 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
- Note when using several CPUs

Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode

128

Performance data / PROFINET communication / as PN IO controller

Product function / PROFINET IO controller Yes

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Number of PN IO devices / on PROFINET IO
controller / usable / total

128

Number of PN IO IRT devices / on PROFINET IO
controller / usable

64

Number of external PN IO lines / with PROFINET /
per rack

4

Amount of data

- as user data for input variables / as PROFINET
IO controller / maximum

4 Kibyte

- as user data for input variables / as PROFINET
IO controller / maximum

4 Kibyte

- 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

- as user data for input variables per PN IO
device / for each sub-module as PROFINET IO
controller / maximum

240 byte

- as user data for output variables per PN IO
device / for each sub-module as PROFINET IO
controller / maximum

240 byte

Product functions / management, configuration, engineering

Product function / MIB support Yes

Protocol / is supported

- SNMP v1 Yes
- DCP Yes
- LLDP Yes

Configuration software

required STEP 7 V5.5 SP3 or higher / STEP 7 Professional V12 (TIA
Portal) or higher

Product functions / Diagnostics

Product function / Web-based diagnostics Yes

Product functions / Switch

Product feature / Switch Yes

Product function

- switch-managed No
- with IRT / PROFINET IO switch Yes
- Configuration with STEP 7 Yes

Product functions / redundancy

Product function

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- Ring redundancy Yes
- Redundancy manager Yes

Protocol / is supported / Media Redundancy Protocol (MRP)

Yes

Product functions / Security

Product function

- password protection for Web applications No
- ACL - IP-based Yes
- ACL - IP-based for PLC/routing No
- switch-off 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

Product function / pass on time synchronization Yes

Protocol / is supported

- NTP Yes

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