

OFFICIAL MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

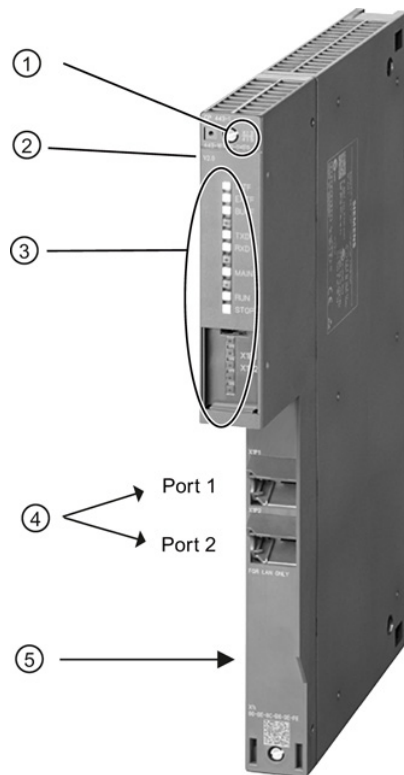
6GK7443-1EX30-0XE0

Siemens official documentation for the exact article number.

Source: 6GK7 443-1EX30-0XE0.pdf

Selected official Siemens pages follow this cover.

Preface



Legend:

- 1 X = placeholder for hardware product version
- 2 Firmware version
- 3 LEDs
- 4 PROFINET interface: 2 x 8-pin RJ-45 jack
- 5 Label with MAC address

Validity and product names

This description contains information on the following product:

- CP 443-1
Article number 6GK7 443-1EX30-0XE0
- CP 443-1 (conformal coating)
CP with coated printed circuit board
Article number 6GK7 443-1EX30-0XE1
Hardware product version 1

Properties and services

1.1 Properties of the CP

Application

The CP is intended for use in an S7400 or S7400H (faulttolerant) automation system. It allows the S7400 / S7400H to be connected to Industrial Ethernet.

The CP has the following interfaces:

- PROFINET interface (Ethernet interface)

A 2-port switch with IRT capability and with autocrossing, autonegotiation and autosensing is integrated in the CP. The 2-port switch allows the integration of the CP in a bus or a ring with media redundancy.

Each port of the switch is designed for simple diagnostics and is equipped with a combined RXD/TXD / LINK dual LED. For special situations, each port can also be set to a fixed mode manually using STEP 7, for example 10 or 100 Mbps half duplex / full duplex.

Each port can be disabled individually in the configuration.

1.2 Enhanced functions

Functional expansions compared with the CP 443-1 EX20 V2.1

The CP 443-1 (6GK7 443-1EX30-0XE0 with firmware version V3.0) supports all functions of the predecessor module (6GK7 443 1EX20 0XE0 with firmware versions V2.1, V2.0 and V1.0).

For information on replacing modules, read the section Replacing older modules: module replacement / upgrading (Page 56)

Technical specifications

Table 8- 1 Technical specifications of the CP 443-1

Technical specifications		
Article numbers	- CP 443-1 - CP 443-1 (conformal coating)	6GK7 443-1EX30-0XE0 6GK7 443-1EX30-0XE1
Attachment to Industrial Ethernet		
Amount	1 x PROFINET interface with 2port switch	
Design of PROFINET interface (2port switch)	Connector	2 x RJ-45 jacks
	Transmission speed	10/100 Mbps
		When working with PROFINET IO, the transmission speed of 100 Mbps full duplex is mandatory.
	Aging time (2port switch)	5 minutes
	Special features of the X1P1R and X1P2R ports	Integration in ring topology / MRP possible
Permitted cable lengths (Ethernet)	(Alternative combinations per length range) *	
0 ... 55 m	- Max. 55 m IE TP Torsion Cable with IE FC RJ45 Plug 180 - Max. 45 m IE TP Torsion Cable with IE FC RJ45 + 10 m TP Cord via IE FC RJ45 Outlet	
0 ... 85 m	- Max. 85 m IE FC TP Marine/Trailing/Flexible/FRNC/Festoon/Food Cable with IE FC RJ45 Plug 180 - Max. 75 m IE FC TP Marine/Trailing/Flexible/FRNC/Festoon/Food Cable + 10 m TP Cord via IE FC RJ45 Outlet	
0 ... 100 m	- Max. 100 m IE FC TP Standard Cable with IE FC RJ45 Plug 180 - Max. 90 m IE FC TP Standard Cable + 10 m TP Cord via IE FC RJ45 Outlet	
Electrical data		
Power supply	via S7 backplane bus	5 V
Current consumption	From backplane bus	1.4 A
	Power dissipation	7.25 W
Permitted ambient conditions		
Ambient temperature	During operation	0 °C to +60 °C
	During storage	-40 °C to +70 °C
	During transportation	-40 °C to +70 °C
Relative humidity	During operation	≤ 95 % at 25 °C, no condensation
Operating altitude	≤ 2,000 m above sea level	
Contaminant concentration	Acc. to ISA-S71.04 severity level G1, G2, G3	