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Overview



DP-M	DP-S	FMS	PG/OP	S7/S5	
		●	●	●	

- Connection of the S7-400 to PROFIBUS
- Communication services:
  - PG/OP communication
  - S7 communication
  - Open communication (SEND/RECEIVE)
  - PROFIBUS FMS
- Time synchronization
- Easy programming and configuration over PROFIBUS
- Cross-network programming device communication through S7 routing
- Can be easily integrated into the SIMATIC S7-400 system
- Modules can be replaced without the need for a PG
- SIMATIC H system operation for redundant S7 communication

Technical specifications

Article number	**6GK7443-5FX02-0XE0**
Product type designation	CP 443-5 Basic
Transmission rate	
Transfer rate	
• at the 1st interface acc. to PROFIBUS	9.6 kbit/s ... 12 Mbit/s
Interfaces	
Number of interfaces acc. to Industrial Ethernet	0
Number of electrical connections	
• at the 1st interface acc. to PROFIBUS	1
Type of electrical connection	
• at the 1st interface acc. to PROFIBUS	9-pin Sub-D socket (RS 485)
Supply voltage, current consumption, power loss	
Type of voltage of the supply voltage	DC
Supply voltage 1 from backplane bus	5 V
Supply voltage	5 V
Relative symmetrical tolerance for DC	
• at 5 V	5 %
Consumed current	
• from backplane bus for DC at 5 V typical	1 A
• from external supply voltage for DC at 24 V typical	1.2 A
Active power loss	5 W
Permitted 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 weight	
Module format	Compact module S7-400 single width
Width	25 mm
Height	290 mm
Depth	210 mm
Net weight	0.65 kg
Product properties, functions, components general	
Number of units	
• per CPU maximum	14
• Note	depending on CPU type
Performance data open communication	
Number of possible connections for open communication by means of SEND/RECEIVE blocks	
• maximum	32
Amount of data	
• as user data per connection for open communication by means of SEND/RECEIVE blocks maximum	240 byte

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Technical specifications (continued)

Article number	6GK7443-5FX02-0XE0
Product type designation	CP 443-5 Basic
Performance data FMS functions	
Number of possible connections for FMS connection maximum	48
Amount of data of the variables	
• for READ job maximum	237 byte
• for WRITE job maximum	233 byte
Number of variables	
• Configurable from server to FMS partner	512
• Loadable from server to FMS partner	2 640
Performance data S7 communication	
Number of possible connections for S7 communication	
• maximum	48
Performance data multi-protocol mode	
Number of possible connections of which 2 reserved for PG/OP communication with multi-protocol mode maximum	59
Performance data telecontrol	
Protocol is supported	
• TCP/IP	No
Product functions management, configuration	
Configuration software	
• required	STEP 7 V5.2 SP1 or higher and NCM S7 for PROFIBUS

Ordering data

	Article No.
CP 443-5 Basic communications processor Communications processor for connection of S7-400 to PROFIBUS, FMS, open communication, PG/OP and S7 communication; with electronic manual on CD-ROM	**6GK7443-5FX02-0XE0**
STEP 7 Version 5.5 Target system: SIMATIC S7-300/-400, SIMATIC C7, SIMATIC WinAC Requirements: Windows XP Prof., Windows 7 Professional/Ultimate Type of delivery: German, English, French, Spanish, Italian; including license key on USB stick, with electronic documentation	
• Floating License on DVD	**6ES7810-4CC10-0YA5**
• Rental license for 50 hours	**6ES7810-4CC10-0YA6**
• Software Update Service on DVD (requires current software version)	**6ES7810-4BC01-0YX2**
• Floating License upgrade 3.x/4.x/5.x to V5.4; on DVD	**6ES7810-4CC10-0YE5**
• Trial License STEP 7 V5.4; on DVD, operational for 14 days	**6ES7810-4CC10-0YA7**
Accessories	
PROFIBUS FastConnect RS 485 connection plugs With 90° cable outlet; insulation displacement technology, max. transmission rate 12 Mbit/s	
• Without PG interface	**6ES7972-0BA52-0XA0**
• With PG interface	**6ES7972-0BB52-0XA0**
PROFIBUS IP20 bus connectors With connection to PPI, MPI, PROFIBUS	
• Without PG interface	**6ES7972-0BA12-0XA0**
• With PG interface	**6ES7972-0BB12-0XA0**
PROFIBUS bus terminal 12M Bus terminal for connection of PROFIBUS nodes at up to 12 Mbit/s with connecting cable	**6GK1500-0AA10**