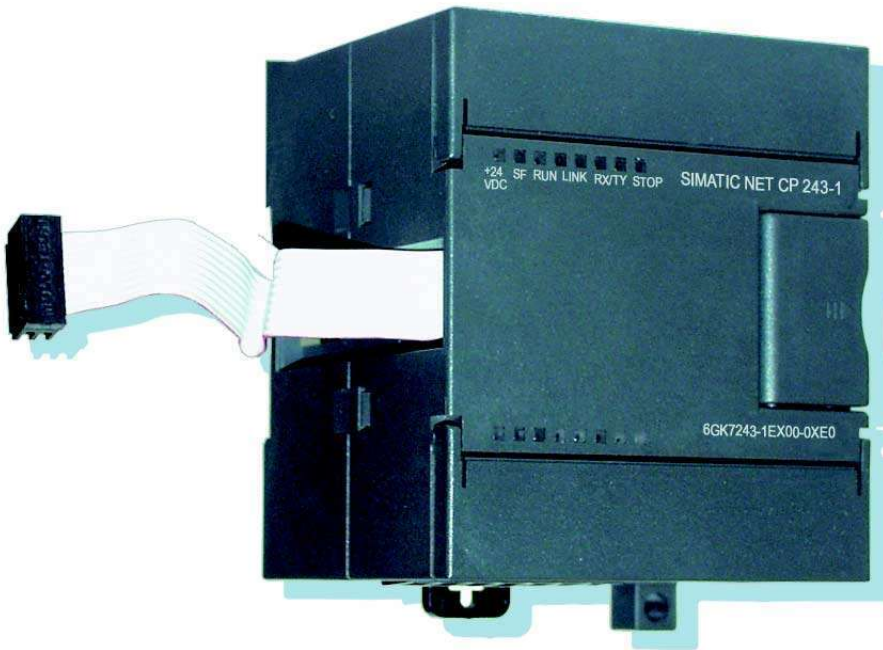


Industrial Ethernet CP 243-1 Communications Processor



- Connection to Industrial Ethernet with
 - 10/100 Mbit/s
 - Half/full Duplex
 - RJ45 socket
 - TCP/IP
- Configuration, remote programming and service with STEP 7-Micro/WIN possible via Industrial Ethernet (program upload and download, status)
- Communication options for S7-200 CPU with other CPUs using Industrial Ethernet (PUT/GET, Client + Server, 8 connections)
- Data processing in PC applications is possible through integration in the S7-OPC
- Can be exchanged without a programming device

simatic net
PRELIMINARY

SIEMENS

Industrial Ethernet

CP 243-1 Communications Processor

Application

The CP 243-1 communications processor enables the S7-200 to be linked to the Ethernet.

- Remote configuration, programming and diagnostics of a SIMATIC S7-200 with STEP 7-Micro/WIN is possible via Ethernet.
- A S7-200 control system with CP 243-1 can exchange data with other S7 control systems through Ethernet.
- The S7-200 data can be accessed by PC applications using the S7-OPC. Process data can thus be easily stored and edited.

Design

The CP 243-1 offers all the advantages of the S7-200 system design:

- compact design in rugged plastic housing
- terminal block for connecting the external supply voltage 24V DC
- LED status display
- can be snap-mounted on DIN-rail or directly wall-mounted
- RJ45 socket for connection to Ethernet (10/100 Mbit/s full/half-duplex with automatic rate detection)

Functions

The CP 243-1 independently handles data traffic over Industrial Ethernet. Communication is based on TCP/IP. Up to 8 connections can be operated. For connection control (keep alive) it is possible to configure an adjustable time for all TCP/IP transport connections for active and passive partners.

The CP 243-1 supports communication of an S7-200 with other S7-200 or S7-300 and S7-400 controllers using Ethernet.

The implementation of PC applications is possible by integration of the S7-OPC Server.

The CP 243-1 allows access of the S7-200 programming software STEP 7-Micro/WIN to S7-200 via Ethernet.

Configuration

The CP 243-1 configuration is executed using STEP 7-Micro/WIN (from version 3.2 SP1).

The CP 243-1 configuring data are stored in the S7-200 CPU. The module can be exchanged without a programming device.

The CP 243-1 is delivered with a preset, unique worldwide MAC address, that cannot be changed.

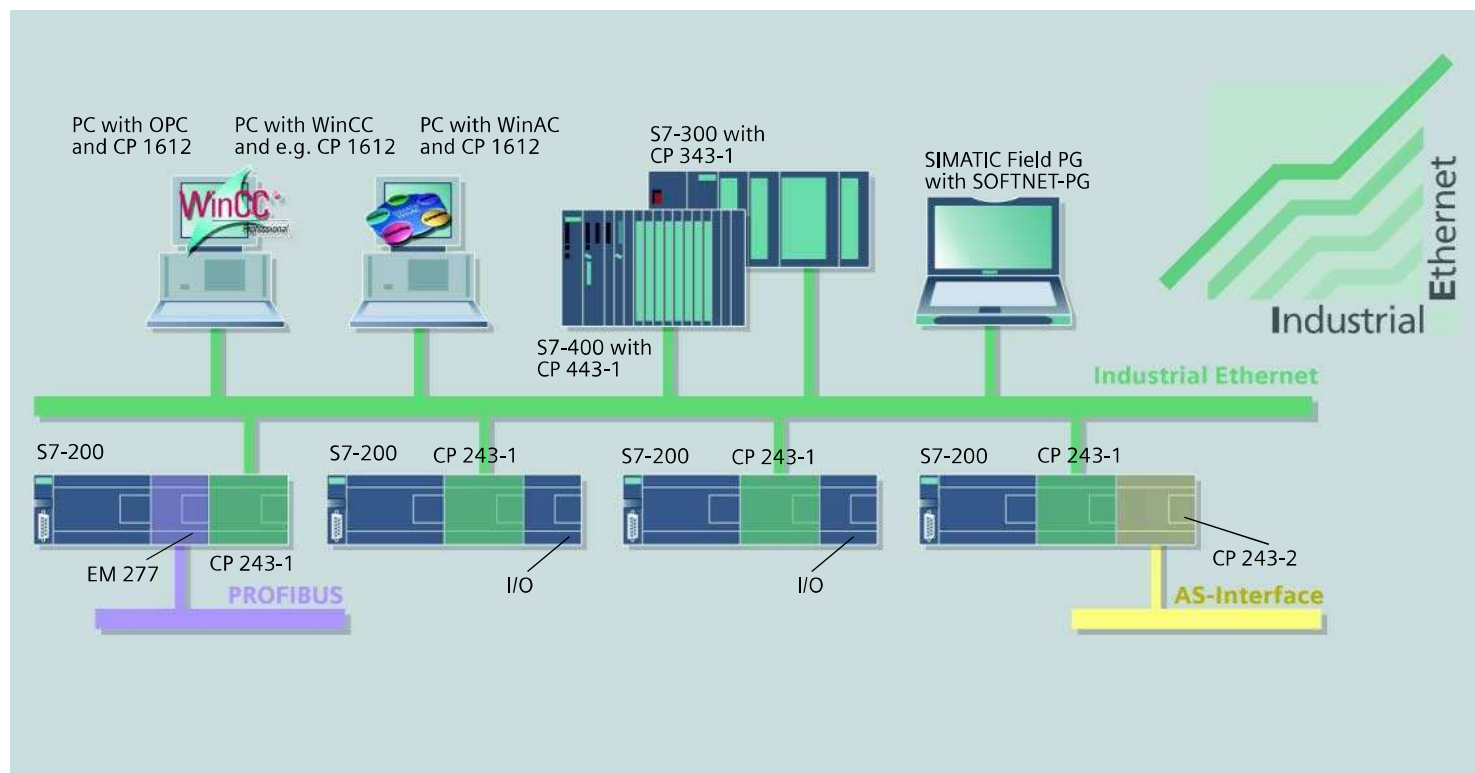


Fig. 1: S7-200 range of communication with CP 243-1

Industrial Ethernet

CP 243-1 Communications Processor

Technical specifications	
Data transfer rate	10/100 Mbit/s
Interfaces	
▪ Connection to Industrial Ethernet	RJ45
Supply voltage	24 V DC
Current consumption	
▪ from backplane bus	55 mA
▪ from external 24 V DC	60 mA
Power loss	1.75 W
Perm. ambient conditions	
▪ Operating temperature	
– horizontal mounting	0 °C to +55 °C
– vertical mounting	0 °C to +45 °C
▪ Transport/storage temperature	-40 °C to +70 °C
▪ Relative humidity	95 % at +25 °C
Design	
▪ Dimensions (W x H x D) in mm	71.2 x 80 x 62
▪ Weight	150 g
Performance data	
S7 communication/PG communication	
▪ Number of operable connections	8
Configuration software	STEP 7-Micro/WIN (from version 3.2 SP1)



- Time and cost-effective configuration, programming and monitoring from a central controlling station using the LAN
- Fast access through Ethernet in order to store or process S7-200 data
- High-performance communication through the use of the standardized Industrial Ethernet infrastructure
- S7-300 and S7-400 controls can communicate with the S7-200 using Industrial Ethernet so that the S7-200 can also be used in complex applications
- Simple and cost-effective linking of all automation levels and devices, as all S7 PLCs can now communicate through a common Industrial Ethernet network
- Simple startup and user-friendly diagnostic functions supported by STEP 7-Micro/WIN configuration
- Simplified maintenance due to the fact, that modules can be exchanged without a PG, and based on support by network administrator (e.g. PING)
- Open data exchange is possible using OPC

Industrial Ethernet

CP 243-1 Communications processor

Ordering data	Order No.
CP 243-1 communications processor to connection of SIMATIC S7-200 to Industrial Ethernet; through S7 communication, PG communi- cation	6GK7 243-1EX00-0XE0

Visit our SIMATIC NET home page
on the Internet



www.siemens.de/automation/simatic-net

There you will find information on products and
solutions, news on SIMATIC NET, as well as events
and professional publications.

All names marked with ® in this Product Infor-
mation Bulletin are registered trademarks
of Siemens AG.

Siemens AG

Automation and Drives
SIMATIC NET Industrial Communication
Postfach 4848, D-90327 Nürnberg
www.siemens.com/automation

Order No. E86060-K6710-E141-B2-7600
26000 301224 WE 1102 2.0

© Siemens AG 2002
This information will become invalid when the
new edition of Catalog IKPI is published.
Subject to change without prior notice.