



Communications processor CP 1542SP-1

Industrial Communication

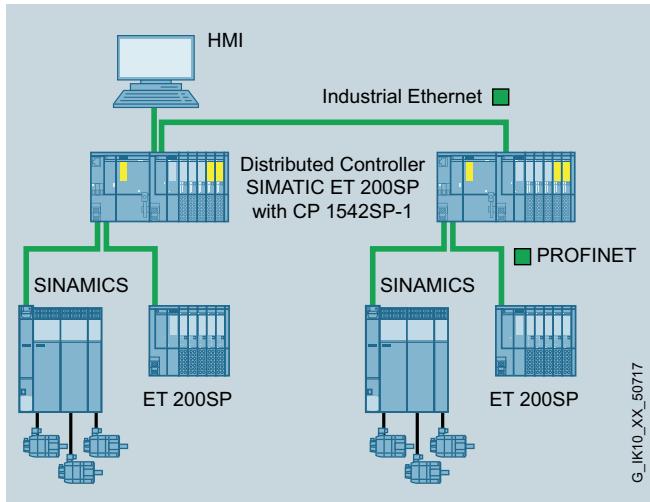
The CP 1542SP-1 communications processor connects the ET 200SP Distributed Controller with Industrial Ethernet networks. The module can also be used for integrating the ET 200SP Distributed Controller into an IPv6-based network. All functions are configured using STEP 7 Professional V14 (TIA Portal) or higher.

The CP 1542SP-1 supports the following services

- PG/OP communication
- S7 communication
- Open communication (Open User Communication)
- IT communication
 - File Transfer Protocol (FTP client) for file management and access to data blocks in the CPU
 - Sending E-mails via SMTP for authentication on an E-mail server (also with IPv6)
 - SNMPv1 for transfer of network analysis information
- Integration of the ET 200SP Distributed Controller into IPv6-based networks; an IPv6-based IP address can be used for the following communication services: E-mail transfer with addressing by program block

Benefits

- Network separation for setting up identical machines with the same IP addresses
- Optimum support of maintenance due to
 - Simple diagnostics via the central web server
 - Monitoring with IT network management tools (SNMP)
 - Module replacement without a PG
 - Secure access to the central web server
- Simple alerting by E-mail
- Protection of investment thanks to simple integration of the ET 200SP Distributed Controller in existing networks with SIMATIC S7-300 / S7-400 via Industrial Ethernet using the CP 1542SP-1
- Accessibility of the ET 200 SP Distributed Controller from an IPv6-based infrastructure



Application

The CP 1542SP-1 is used for connecting the ET 200SP Distributed Controller to Industrial Ethernet networks. With its own processor, it relieves the CPU of communication tasks.

The CP 1542SP-1 offers possible communication with:

- PG/PCs
- Master computers
- Operator control and monitoring systems
- SIMATIC S7 systems

The CP 1542SP-1 is used with the Distributed Controller ET 200SP, to operate lower-level networks separately, or to implement a separation from the higher-level network.

Technical data

Order number	6GK7542-6UX00-0XE0	
Product type designation	CP 1542SP-1	
Transfer rate	at the 1st interface	10 ... 100 Mbit/s
Interfaces	Number of interfaces acc. to Industrial Ethernet	1
	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	via ET200SP BusAdapter (RJ45, FC, LC, SCRJ), switch integrated
Design, dimensions and weight	Width	60 mm
	Mounting type: 35 mm DIN rail mounting	Yes
Product properties, functions, components general	Number of units per CPU maximum	2
	Note: 2 CPs can be plugged in per CPU, simultaneous operation with BA Send and CM DP is possible	
Performance data open communication	Number of possible connections for open communication by means of T blocks maximum	32
Performance data S7 communication	Maximum number of possible connections for S7 communication	16
	Number of possible connections with OP connections maximum	16
	Configuration software required	STEP 7 Professional V14 (TIA Portal) or higher

Selection and ordering data

Device	MLFB
CP 1542SP-1	6GK7542-6UX00-0XE0
Further communications processors for SIMATIC ET 200SP	MLFB
CP 1543SP-1 (Industrial Security)	6GK7543-6WX00-0XE0
CP 1542SP-1 IRC (Telecontrol)	6GK7542-6VX00-0XE0

Security information

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept. For more information about industrial security, please visit <https://www.siemens.com/industrialsecurity>.

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