



SIMATIC NET CP 443-1 ADVANCED 1X 10/100/1000 MBIT/S;
 4 X 10/100 MBIT/S (IE SWITCH);
 RJ 45 PORTS;
 ISO;
 TCP;
 UDP;
 PROFINET-IO CON- TROLLER;
 S7-COMMUNICATION;
 OPEN COMMUNICATION (SEND/RE- CEIVE);
 S7-ROUTING;
 IP-KONFIGU- RATION VIA DHCP/BLOCK;
 IP ACCESSS CONTROL LIST;
 TIME- SYNCHRONISATION;
 EXTENDED WEB-DIAGNOSIS;
 FAST STARTUP;
 PROFIENERGY SUPPORT;
 IP-ROUTING;
 FTP;
 WEB-SERVER;
 E-MAIL;
 PROFINET CBA, SECURITY

Transmission rate

Transfer rate

• at the interface 1	10 ... 1000 Mbit/s
• at the interface 2	10 ... 100 Mbit/s

Interfaces

Number of electrical connections

• at interface 1 / in accordance with Industrial Ethernet	1
• at interface 2 / in accordance with Industrial Ethernet	4

design of the removable storage / C-PLUG	Yes
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Supply voltage, current consumption, power loss

Type of voltage / of supply voltage	DC
Power supply / 1 / from backplane bus	5 V
Relative symmetrical tolerance / at 5 V / with DC	5 %
Consumed current / from backplane bus / at 5 V / for DC / Typical	1.8 A
Resistive loss	7.25 W

Permitted ambient conditions

Ambient temperature

• during operating	0 ... 60 °C
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<ul style="list-style-type: none"> during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> during transport 	-40 ... +70 °C
Relative humidity	
<ul style="list-style-type: none"> at 25 °C / without condensation / during operating / maximum 	95 %
Protection class IP	IP20
Design, dimensions and weight	
Width	25 mm
Height	290 mm
Depth	210 mm
Net weight	0.7 kg
Product properties, functions, components / general	
Number of units	
<ul style="list-style-type: none"> per CPU / maximum 	14
Performance data / open communication	
Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	64
Data volume	
<ul style="list-style-type: none"> as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum 	8 Kibyte
<ul style="list-style-type: none"> as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum 	8 Kibyte
<ul style="list-style-type: none"> as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum 	8 Kibyte
<ul style="list-style-type: none"> 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
Data volume / 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	
<ul style="list-style-type: none"> maximum 	128
<ul style="list-style-type: none"> with PG connections / maximum 	2
Performance data / multi-protocol mode	
Number of active connections / with multiprotocol mode	128
Performance data / IT functions	
Number of possible connections	
<ul style="list-style-type: none"> as client / by means of FTP / maximum 	20
<ul style="list-style-type: none"> as server 	
<ul style="list-style-type: none"> by means of FTP / maximum 	10
<ul style="list-style-type: none"> by means of HTTP / maximum 	4

• as e-mail client / maximum	1
Amount of data / as useful data for e-mail / maximum	8 Kibyte
Storage capacity / of user memory	
• as flash memory file system	30 Mibyte
• as RAM	16 Mibyte
Memory capacity / of the user memory / additionally buffered as RAM via central backup battery	512 Kibyte
Number of possible write cycles / flash memory cells	100000
Performance data / PROFINET communication / as PN IO-Controller	
Product function / PROFINET IO controller	Yes
Number of PN IO-Devices / on PROFINET IO-Controller / usable / total	128
Number of PN IO IRT-Devices / on PROFINET IO-Controller / usable	32
Number of external PN IO lines / with PROFINET / per rack	4
Amount of data	
• as useful data for input variables / as PROFINET IO controller / maximum	4 Kibyte
• as useful data for input variables / with PROFINET IO controller / maximum	4 Kibyte
• as useful data for input variables per PN IO device / with PROFINET IO controller / maximum	240 byte
• as useful data for output variables per PN IO device / with PROFINET IO controller / maximum	240 byte
Performance data / PROFINET CBA	
Number of remote connection partners / with PROFINET CBA	64
Number of connections / with PROFINET CBA / total	600
Amount of data	
• as useful data for digital inputs / with PROFINET CBA / maximum	8 Kibyte
• as useful data for digital outputs / in the case of PROFINET CBA / max.	8 Kibyte
• as useful data for arrays and data types	
• in the case of acyclic transmission / with PROFINET CBA / maximum	8 Kibyte
• in the case of cyclic transmission / with PROFINET CBA / maximum	250 byte
• in the case of local interconnection / with PROFINET CBA / maximum	2400 byte
Performance data / PROFINET CBA / remote connection / with acyclic transmission	
Updating time / of the remote interconnections / in the case of acyclic transmission / with PROFINET CBA	100 ms
Number of remote connections to input variables / with acyclic transmission / with PROFINET CBA / maximum	150

Number of remote connections to output variables / with acyclic transmission / with PROFINET CBA / maximum	150
Amount of data	
<ul style="list-style-type: none"> • as useful data for remote interconnections with input variables / in the case of acyclic transmission / with PROFINET CBA 	8 Kibyte
<ul style="list-style-type: none"> • as useful data for remote interconnections with output variables / in the case of acyclic transmission / with PROFINET CBA 	8 Kibyte
Performance data / PROFINET CBA / remote connection / with cyclic transmission	
Updating time / of the remote interconnections / in the case of acyclic transmission / with PROFINET CBA	10 ms
Number of remote connections to input variables / with cyclic transmission / with PROFINET CBA / maximum	250
Number of remote connections to output variables / with cyclic transmission / with PROFINET CBA / maximum	250
Amount of data	
<ul style="list-style-type: none"> • as useful data for remote interconnections with input variables / in the case of cyclic transmission / with PROFINET CBA / max. 	2000 byte
<ul style="list-style-type: none"> • as useful data for remote interconnections with output variables / in the case of cyclic transmission / with PROFINET CBA / maximum 	2000 byte
Performance data / PROFINET CBA / HMI variables via PROFINET / acyclic	
Number of connectable HMI stations / for HMI variables / with acyclic transmission / with PROFINET CBA	3
Updating time / of the HMI variables / in the case of acyclic transmission / with PROFINET CBA	500 ms
Number of HMI variables / with acyclic transmission / with PROFINET CBA / maximum	200
Amount of data / as useful data for HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum	8 Kibyte
Performance data / PROFINET CBA / device-internal connections	
Number of internal connections / with PROFINET CBA / maximum	300
Data volume / of internal connections / with PROFINET CBA / maximum	2400 byte
Performance data / PROFINET CBA / connections to constants	
Number of connections to constants / with PROFINET CBA / maximum	500
Amount of data / as useful data for interconnections with constants / in the case of PROFINET CBA / maximum	4000 byte
Performance data / PROFINET CBA / PROFIBUS proxy functionality	
Product function / with PROFINET CBA / PROFIBUS proxy functionality	No
Product functions / management, configuration	
Product function / MIB support	Yes

Protocol / is supported	
• SNMP v1	Yes
• DCP	Yes
• LLDP	Yes
Product functions / Diagnosis	
Product function / Web-based diagnostics	Yes
Product functions / switch	
Product feature / switch	Yes
Product function	
• switch-managed	No
• for IRT / PROFINET IO switch	Yes
• Configuration with STEP 7	Yes
Product functions / Redundancy	
Product function	
• Ring redundancy	Yes
• Redundancy manager	Yes
• MRP redundancy protocol	Yes
Product functions / Security	
Number of possible connections / for VPN connection	16
Product function	
• password protection for Web applications	Yes
• ACL - IP-based	Yes
• ACL - IP-based for PLC/routing	Yes
• switchoff 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
• pass on time synchronization	Yes
Protocol / is supported / NTP	Yes
letzte Änderung:	May 14, 2012