SIEMENS

Product data sheet   **6GK7343-1GX31-0XE0**

Product-type designation	CP 343-1 Advanced
	SIMATIC NET CP 343-1 ADVANCED; FOR CONNECTING SIMATIC S7-300 CPU TO IND. ETHERNET; PROFINET IO CONTROLLER AND/OR IO-DEVICE; RT AND IRT MRP, PROFINET CBA; TCP/IP; ISO,UDP,S7-COM,S5-KOMP. COM., (SEND/RECEIVE) W. FETCH/WRITE WITH AND WITHOUT RFC 1006, MULTICAST DIAGNOSIS EXTENSION, SNMP, DHCP, FTP CLIENT/SERVER, E-MAIL, GIGABIT-SS1X RJ45 (10/100/1000) PROFINET-SS 2X RJ45(10/100MBIT) PROFINET CBA; SECURITY (FIREWALL/VPN); PROFIENERGY

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	2
• for power supply	1
Design of electrical connection	
• at interface 1 / in accordance with Industrial Ethernet	RJ45 port
• at interface 2 / in accordance with Industrial Ethernet	RJ45 port
design of the removable storage / C-PLUG	Yes

Supply voltage, current consumption, power loss	
Type of voltage / of supply voltage	DC
Supply voltage	
• 1 / from backplane bus	5 V
• external	24 V
Relative positive tolerance / at 24 V / with DC	20 %
Relative negative tolerance / at 24 V / with DC	15 %

Consumed current	
• from backplane bus / at 5 V / for DC / Typical	0.14 A
• from external supply voltage / at 24 V / with DC	
• typical	0.48 A
• maximum	0.62 A
Resistive loss	14.7 W

Permitted ambient conditions

Ambient temperature	
• for vertical installation / during operating phase	0 … 40 °C
• for horizontal installation / during operating phase	0 … 60 °C
• during storage	-40 … +70 °C
• during transport	-40 … +70 °C
Relative humidity / at 25 °C / without condensation / during operating / maximum	95 %
Protection class IP	IP20

Design, dimensions and weight

Module format	Compact module
Width	80 mm
Height	125 mm
Depth	120 mm
Net weight	0.8 kg
Performance data / open communication	
Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	16
Data volume	
• as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum	8 Kibyte
• as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum	8 Kibyte
• as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum	8 Kibyte
• as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum	2 Kibyte
Number of Multicast stations	16
Performance data / S7 communication	
Number of possible connections / for S7 communication	
• maximum	16
Performance data / multi-protocol mode	
Number of active connections / with multiprotocol mode	48
Performance data / IT functions	
Number of possible connections	

• as client / by means of FTP / maximum	10
• as server	
• by means of FTP / maximum	2
• 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	28 Mibyte
• as RAM	30 Mibyte
Number of possible write cycles / flash memory cells	100000
Performance data / PROFINET communication / as PN IO-Controller	
Number of PN IO-Devices / on PROFINET IO-Controller / usable / total	128
Number of PN IO IRT-Devices / on PROFINET IO-Controller / usable	128
Number of external PN IO lines / with PROFINET / per rack	1
Data volume	
• as useful data for input variables / as PROFINET IO controller / maximum	4 Kibyte
• as useful data for output variables / with PROFINET IO controller / maximum	4 Kibyte
• as useful data for input variables per PN IO device / with PROFINET IO controller / maximum	1433 byte
• as useful data for output variables per PN IO device / with PROFINET IO controller / maximum	1433 byte
• as user data for input variable per PN IO device / per submodule as PROFINET IO controller / maximum	240 byte
• as user data for output variables per PN IO device / per submodule as PROFINET IO controller / maximum	240 byte
Performance data / PROFINET communication / as PN IO-Device	
Product function / PROFINET IO device	Yes
Amount of data	
• as useful data for input variables / as PROFINET IO device / maximum	1024 byte
• as useful data for input variables / as PROFINET IO device / maximum	1024 byte
• as useful data for input variables / for each sub-module under PROFINET IO device	240 byte
• as useful data for input variables / for each sub-module under PROFINET IO device	240 byte
• as useful data for the consistency area for each sub-module	240 byte
Number of submodules / per PROFINET IO-Device	32
Performance data / PROFINET CBA	
Number of remote connection partners / with PROFINET CBA	64

Number of connections / with PROFINET CBA / total	1000
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
• with PROFINET CBA / with cyclic transmission / maximum	250 byte
• with PROFINET CBA / in the case of local interconnection / 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	128
Number of remote connections to output variables / with acyclic transmission / with PROFINET CBA / maximum	128
Amount of data	
• as useful data for remote interconnections with input variables / in the case of acyclic transmission / with PROFINET CBA	8 Kibyte
• 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	
Update time / of the remote interconnections / with PROFINET CBA / with cyclic transmission	8 ms
Number of remote connections to input variables / with PROFINET CBA / with cyclic transmission / maximum	200
Number of remote connections to output variables / with PROFINET CBA / with cyclic transmission / maximum	200
Amount of data	
• as useful data for remote interconnections with input variables / with PROFINET CBA / with cyclic transmission / maximum	2000 byte
• as useful data for remote interconnections with output variables / with PROFINET CBA / with cyclic transmission / 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	256
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	200
Amount of data / as useful data for interconnections with constants / in the case of PROFINET CBA / maximum	4096 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
Configuration software	
• for PROFINET CBA / required	SIMATIC iMap V3.0 SP4 and higher
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher level designation/location designation	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
• Media Redundancy Protocol (MRP)	Yes
Product functions / Security	
Design of the firewall	stateful inspection

Product function / with VPN connection	IPSec
Type of encryption algorithms / with VPN connection	AES-256, AES-192, AES-128, 3DES-168, DES-56
Type of authentication procedure / with VPN connection	Preshared key (PSK), X.509v3 certificates
Type of hashing algorithms / with VPN connection	MD5, SHA-1
Number of possible connections / for VPN connection	32
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
Maßzeichnung	

Vorne offen / Front opearne / Front   Links / Left
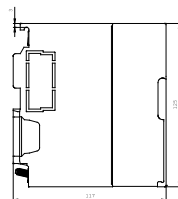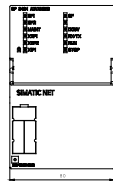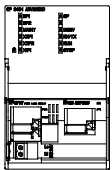

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