SIEMENS

Data sheet

6GK7343-1GX21-0XE0

Product type designation



CP 343-1 Advanced

SIMATIC NET, CP 343-1 ADVANCED COMMUNICATION PROCESSOR FOR CONNECTING SIMATIC S7-300 TO IND. ETHERNET VIA PROFINET-IO CONTROLLER, PROFINET CBA,ISO, TCP/IP AND UDP, S7-KOMM., FETCH/WRITE, SEND/RECEIVE, WITH AND W/O RFC1006, HTTP W JAVA, MULTICAST, LOAD. COMM. BLOCKS, HTML DIAGN.,FTP CLIENT/SERVER E-MAIL, SNMP, DHCP, NTP-CPU SYNC, 10/100 MBIT, ONLY RJ45 PORT

Transmission rate	
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	1
for power supply	1
Type of electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port
 of Industrial Ethernet interface 	RJ45 port
• for power supply	2-pole plugable terminal block
design of the removable storage / C-PLUG	Yes
Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage / 1 / from backplane bus	5 V
Supply voltage	24 V

Supply voltage / external	24 V
Supply voltage / external / at DC / Rated value	24 V
Relative positive tolerance / at DC / at 24 V	20 %
Relative negative tolerance / at DC / at 24 V	15 %
Consumed current	
• from backplane bus / at DC / at 5 V / typical	0.14 A
Power loss [W]	14.7 W

Permitted ambient conditions	
Ambient temperature	
 for vertical installation / during operation 	0 40 °C
 for horizontally arranged busbars / during 	0 60 °C
operation	
during storage	-40 +70 °C
 during transport 	-40 +70 °C
Relative humidity / at 25 °C / without condensation /	95 %
during operation / maximum	
Protection class IP	IP20

Design, dimensions and weight	
Module format	Compact module S7-300 double width
Width	80 mm
Height	125 mm
Depth	120 mm
Net weight	0.8 kg
Mounting type	
• S7-300 rail mounting	Yes

Performance data / open communication	
Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	16
Amount of data	
 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 multi-protocol	48
mode	
Performance data / IT functions	
Number of possible connections	
as client / by means of FTP / maximum	10
• as server / by means of FTP / maximum	2
• as server / by means of HTTP / maximum	4
• as e-mail client / maximum	1
Amount of data / as user data for email / maximum	8 Kibyte
Storage capacity / of the user memory	<u> </u>
as flash memory file system	28 Mibyte
• as RAM	30 Mibyte
Number of possible write cycles / of the flash memory	100000
cells	
Performance data / PROFINET communication / as	PN IO-Controller
Number of PN IO devices / on PROFINET IO	125
controller / usable / total	
Number of external PN IO lines / with PROFINET / per rack	1
Amount of data	
as user data for input variables / as PROFINET	4 Kibyte
IO controller / maximum	
as user data for input variables / as PROFINET	4 Kibyte
IO controller / maximum	•
as user data for input variables per PN IO	1433 byte
device / as PROFINET IO controller / maximum	
as user data for output variables per PN IO	1433 byte
device / as PROFINET IO controller / maximum	
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 user data for digital inputs / with PROFINET	8 Kibyte
CBA / maximum	•
as user data for digital outputs / with	8 Kibyte
PROFINET CBA / maximum	

 as user data for arrays and data types / in the case of acyclic transmission / with PROFINET CBA / maximum 	8 Kibyte
 as user data for arrays and data types / with PROFINET CBA / with cyclical transfer / maximum 	450 byte
 as user data for arrays and data types / with PROFINET CBA / in the case of local interconnection / maximum 	2400 byte

Refresh time / of the remote interconnections / in the	100 ms
case of acyclic transmission / with PROFINET CBA	
Number of remote connections to input variables / in the case of acyclic transmission / with PROFINET CBA / maximum	128
Number of remote connections to output variables / in the case of acyclic transmission / with PROFINET CBA / maximum	128
Amount of data	
 as user data for remote interconnections with input variables / in the case of acyclic transmission / with PROFINET CBA 	8 Kibyte
 as user 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	
Refresh time / of the remote interconnections / with	8 ms
PROFINET CBA / with cyclical transfer	
Number of remote connections to input variables /	200
with PROFINET CBA / with cyclical transfer / maximum	
Number of remote connections to output variables /	200
with PROFINET CBA / with cyclical transfer /	
maximum	
Amount of data	
 as user data for remote interconnections with 	2000 byte
input variables / with PROFINET CBA / with	
cyclical transfer / maximum	
 as user data for remote interconnections with 	2000 byte
output variables / with PROFINET CBA / with	
cyclical transfer / maximum	

Performance data / PROFINET CBA / HMI variables via PROFINET / acyclic

Number of connectable HMI stations / for HMI variables / in the case of acyclic transmission / with PROFINET CBA

3

Refresh time / of the HMI variables / in the case of acyclic transmission / with PROFINET CBA	500 ms
Number of HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum	200
Amount of data / as user data for HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum	8 Kibyte
Performance data / PROFINET CBA / device-intern	al connections
Number of internal connections / with PROFINET	256
CBA / maximum	
Amount of data / of the internal connections / with	2400 byte
PROFINET CBA / maximum	
Deformance data / DDOFINET CDA / connections	to constants
Performance data / PROFINET CBA / connections Number of connections with constants / with	200
PROFINET CBA / maximum	200
Amount of data / as user data for interconnections	4096 byte
with constants / with PROFINET CBA / maximum	
Performance data / PROFINET CBA / PROFIBUS	proxy functionality
Product function / with PROFINET CBA / PROFIBUS	No
proxy functionality	
Performance data / telecontrol	
Protocol / is supported	
• TCP/IP	Yes
Product function / MIB support	Yes
Protocol / is supported	
• SNMP v1	Yes
• DCP	Yes
• LLDP	Yes
Configuration software	
• required	STEP 7 V5.3 SP2 or higher
for PROFINET CBA / required	SIMATIC iMap V2.0 SP1 and higher
Identification & maintenance function	SilviATIC liviap V2.0 SFT and higher
	Voo
• I&M0 - device-specific information	Yes
I&M1 – higher-level designation/location designation	Yes
designation	
Product functions / Diagnosis	
Product function / Web-based diagnostics	Yes
Product functions / switch	
Product feature / Switch	No
Product functions / Redundancy	
- rodaot ranotiono / recaundancy	
Product function	

No Ring redundancy

Product functions /	Security
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Product function	วท
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• ACL - IP-based Yes

• ACL - IP-based for PLC/routing No

No switch-off of non-required services

No • Blocking of communication via physical ports

No log file for unauthorized access

Product functions / Time

Product function / SICLOCK support	Yes
Product function / pass on time synchronization	Yes
Protocol / is supported	
• NTP	Yes

Internet-Link

• to website: Selector SIMATIC NET **SELECTION TOOL**

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

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Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Thirdparty products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit

http://support.automation.siemens.com. (V3.4)

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