



Figure similar

SIPLUS NET CP 343-1 Advanced with conformal coating based on 6GK7343-1GX31-0XE0 . for connection of the SIMATIC "S7-300 CPU to Ind. Ethernet;" PROFINET IO controller and/or "IO Device; RT and RT and IRT" "IRT, MRP, PROFINET CBA; TCP/IP" ISO, UDP, S7 COM, S5-comp. com., (send/receive) with Fetch/Write with and without RFC 1006, MULTICAST Diagnostic extension,SNMP,DHCP, FTP client/server, e-mail, Gigabit-SS1X RJ45 (10/100/1000) PROFINET-SS 2x RJ45(10/100 "Mbit) ""PROFINET CBA; security"" ""(firewall/VPN); PROFinergy"

transfer rate	
transfer rate	
<ul style="list-style-type: none"> <li>at the 1st interface</li> </ul>	10 ... 1000 Mbit/s
<ul style="list-style-type: none"> <li>at the 2nd interface</li> </ul>	10 ... 100 Mbit/s
interfaces	
number of interfaces / acc. to Industrial Ethernet	3
number of electrical connections	
<ul style="list-style-type: none"> <li>at the 1st interface / acc. to Industrial Ethernet</li> </ul>	1
<ul style="list-style-type: none"> <li>at the 2nd interface / acc. to Industrial Ethernet</li> </ul>	2
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	1
type of electrical connection	
<ul style="list-style-type: none"> <li>at the 1st interface / acc. to Industrial Ethernet</li> </ul>	RJ45 port
<ul style="list-style-type: none"> <li>at the 2nd interface / acc. to Industrial Ethernet</li> </ul>	RJ45 port
type of electrical connection	
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	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 / 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	
<ul style="list-style-type: none"> <li>from backplane bus / at DC / at 5 V / typical</li> </ul>	0.14 A
<ul style="list-style-type: none"> <li>from external supply voltage / at DC / at 24 V / typical</li> </ul>	0.48 A
<ul style="list-style-type: none"> <li>from external supply voltage / at DC / at 24 V / maximum</li> </ul>	0.62 A
power loss [W]	14.7 W
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> <li>for vertical installation / during operation</li> </ul>	0 ... 40 °C
<ul style="list-style-type: none"> <li>for horizontally arranged busbars / during operation</li> </ul>	0 ... 60 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-40 ... +70 °C
installation altitude / at height above sea level / maximum	5000 m

ambient condition / relating to ambient temperature - air pressure - installation altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
relative humidity <ul style="list-style-type: none"> <li>with condensation / acc. to IEC 60068-2-38 / maximum</li> </ul>	100 %; RH including condensation/frost (no commissioning when condensation is present), horizontal installation
chemical resistance / to commercially available cooling lubricants	Yes; incl. airborne diesel and oil droplets
resistance to biologically active substances <ul style="list-style-type: none"> <li>conformity acc. to EN 60721-3-3</li> <li>conformity acc. to EN 60721-3-6</li> </ul>	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
resistance to chemically active substances <ul style="list-style-type: none"> <li>conformity acc. to EN 60721-3-3</li> <li>conformity acc. to EN 60721-3-6</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray in accordance with EN 60068-2-52 (Severity 3). The supplied plug covers must remain in place on the unused interfaces during operation. Yes
resistance to mechanically active substances <ul style="list-style-type: none"> <li>conformity acc. to EN 60721-3-3</li> <li>conformity acc. to EN 60721-3-6</li> </ul>	Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation. Yes; Class 6S3 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
coating / for equipped printed circuit board / acc. to EN 61086	Yes; Class 2 for high availability
type of coating / protection against pollution according to EN 60664-3	Yes; Protection of the type 1
type of test / of the coating / acc. to MIL-I-46058C	Yes; Coating discoloration during service life possible
product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies acc. to IPC-CC-830A	Yes; Conformal coating, class A
protection class IP	IP20
<b>design, dimensions and weights</b>	
module format	Compact module
width	80 mm
height	125 mm
depth	120 mm
net weight	0.8 kg
fastening method <ul style="list-style-type: none"> <li>S7-300 rail mounting</li> </ul>	Yes
<b>performance data / open communication</b>	
number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	16
data volume <ul style="list-style-type: none"> <li>as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> <li>as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> <li>as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> <li>as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte 8 Kibyte 8 Kibyte 2 Kibyte
number of Multicast stations	16
<b>performance data / S7 communication</b>	
number of possible connections / for S7 communication <ul style="list-style-type: none"> <li>maximum</li> </ul>	16
<b>performance data / multi-protocol mode</b>	
number of active connections / with multi-protocol mode	48
<b>performance data / IT functions</b>	
number of possible connections	

<ul style="list-style-type: none"> <li>● as client / by means of FTP / maximum</li> </ul>	10
<ul style="list-style-type: none"> <li>● as server / by means of FTP / maximum</li> </ul>	2
number of possible connections	
<ul style="list-style-type: none"> <li>● as server / by means of HTTP / maximum</li> </ul>	4
<ul style="list-style-type: none"> <li>● as email client / maximum</li> </ul>	1
data volume / as user data for email / maximum	8 Kibyte
storage capacity / of the user memory	
<ul style="list-style-type: none"> <li>● as flash memory file system</li> </ul>	28 Mibyte
<ul style="list-style-type: none"> <li>● as RAM</li> </ul>	30 Mibyte
number of possible write cycles / of the flash memory cells	100000
<b>performance data / PROFINET communication / as PN IO controller</b>	
product function / PROFINET IO controller	Yes
number of PN IO devices / on PROFINET IO controller / operable / total	128
number of PN IO IRT devices / on PROFINET IO controller / operable	128
number of external PN IO lines / with PROFINET / per rack	1
data volume	
<ul style="list-style-type: none"> <li>● as user data for input variables / as PROFINET IO controller / maximum</li> </ul>	4 Kibyte
<ul style="list-style-type: none"> <li>● as user data for output variables / as PROFINET IO controller / maximum</li> </ul>	4 Kibyte
<ul style="list-style-type: none"> <li>● as user data for input variables per PN IO device / as PROFINET IO controller / maximum</li> </ul>	1433 byte
<ul style="list-style-type: none"> <li>● as user data for output variables per PN IO device / as PROFINET IO controller / maximum</li> </ul>	1433 byte
<ul style="list-style-type: none"> <li>● as user data for input variables per PN IO device / for each sub-module as PROFINET IO controller / maximum</li> </ul>	240 byte
<ul style="list-style-type: none"> <li>● as user data for output variables per PN IO device / for each sub-module as PROFINET IO controller / maximum</li> </ul>	240 byte
<b>performance data / PROFINET communication / as PN IO device</b>	
product function / PROFINET IO device	Yes
data volume	
<ul style="list-style-type: none"> <li>● as user data for input variables / as PROFINET IO device / maximum</li> </ul>	1024 byte
<ul style="list-style-type: none"> <li>● as user data for output variables / as PROFINET IO device / maximum</li> </ul>	1024 byte
<ul style="list-style-type: none"> <li>● as user data for input variables / for each sub-module as PROFINET IO device</li> </ul>	240 byte
<ul style="list-style-type: none"> <li>● as user data for output variables / for each sub-module as PROFINET IO device</li> </ul>	240 byte
<ul style="list-style-type: none"> <li>● as user data for the consistency area for each sub-module</li> </ul>	240 byte
number of submodules / per PROFINET IO-Device	32
<b>performance data / PROFINET CBA</b>	
number of remote connection partners / with PROFINET CBA	64
number of connections / with PROFINET CBA / total	1000
data volume	
<ul style="list-style-type: none"> <li>● as user data for digital inputs / with PROFINET CBA / maximum</li> </ul>	8 Kibyte
<ul style="list-style-type: none"> <li>● as user data for digital outputs / with PROFINET CBA / maximum</li> </ul>	8 Kibyte
<ul style="list-style-type: none"> <li>● as user data for arrays and data types / in the case of acyclic transmission / with PROFINET CBA / maximum</li> </ul>	8 Kibyte
<ul style="list-style-type: none"> <li>● as user data for arrays and data types / with PROFINET CBA / with cyclical transfer / maximum</li> </ul>	250 byte
<ul style="list-style-type: none"> <li>● as user data for arrays and data types / with PROFINET CBA / in the case of local interconnection / maximum</li> </ul>	2400 byte

performance data / PROFINET CBA / remote interconnection / with acyclic transfer	
update time / of the remote interconnections / in the case of acyclic transmission / with PROFINET CBA	100 ms
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
data volume	
<ul style="list-style-type: none"> <li>as user data for remote interconnections with input variables / in the case of acyclic transmission / with PROFINET CBA</li> </ul>	8 Kibyte
<ul style="list-style-type: none"> <li>as user data for remote interconnections with output variables / in the case of acyclic transmission / with PROFINET CBA</li> </ul>	8 Kibyte
performance data / PROFINET CBA / remote interconnection / with cyclic transfer	
update time / of the remote interconnections / with PROFINET CBA / with cyclical transfer	8 ms
number of remote connections to input variables / with PROFINET CBA / with cyclical transfer / maximum	200
number of remote connections to output variables / with PROFINET CBA / with cyclical transfer / maximum	200
data volume	
<ul style="list-style-type: none"> <li>as user data for remote interconnections with input variables / with PROFINET CBA / with cyclical transfer / maximum</li> </ul>	2000 byte
<ul style="list-style-type: none"> <li>as user data for remote interconnections with output variables / with PROFINET CBA / with cyclical transfer / maximum</li> </ul>	2000 byte
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
update 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
data volume / as user data for HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum	8 Kibyte
performance data / PROFINET CBA / device-internal interconnections	
number of internal connections / with PROFINET CBA / maximum	256
data volume / of the internal connections / with PROFINET CBA / maximum	2400 byte
performance data / PROFINET CBA / interconnections to constants	
number of connections with constants / with PROFINET CBA / maximum	200
data volume / as user data for interconnections with constants / with PROFINET CBA / maximum	4096 byte
performance data / PROFINET CBA / PROFIBUS proxy functionality	
product function / with PROFINET CBA / PROFIBUS proxy functionality	No
performance data / telecontrol	
protocol / is supported	
<ul style="list-style-type: none"> <li>TCP/IP</li> </ul>	Yes
product functions / management, configuration, engineering	
product function / MIB support	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>SNMP v1</li> <li>SNMP v3</li> <li>DCP</li> <li>LLDP</li> </ul>	Yes Yes Yes Yes
configuration software	

<ul style="list-style-type: none"> <li>required</li> </ul>	STEP7 V5.5 SP2 HF1 or higher / STEP 7 Professional V12 (TIA Portal) or higher
<ul style="list-style-type: none"> <li>for PROFINET CBA / required</li> </ul>	SIMATIC iMap V3.0 SP4 and higher
identification & maintenance function	
<ul style="list-style-type: none"> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
<ul style="list-style-type: none"> <li>I&amp;M1 – higher level designation/location designation</li> </ul>	Yes
<b>product functions / diagnostics</b>	
product function / web-based diagnostics	Yes
<b>product functions / switch</b>	
product feature / switch	Yes
product function	
<ul style="list-style-type: none"> <li>switch-managed</li> </ul>	No
<ul style="list-style-type: none"> <li>with IRT / PROFINET IO switch</li> </ul>	Yes
<ul style="list-style-type: none"> <li>configuration with STEP 7</li> </ul>	Yes
<b>product functions / redundancy</b>	
product function	
<ul style="list-style-type: none"> <li>ring redundancy</li> </ul>	Yes
<ul style="list-style-type: none"> <li>redundancy manager</li> </ul>	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
<b>product functions / security</b>	
firewall version	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 / with VPN connection	32
product function	
<ul style="list-style-type: none"> <li>password protection for Web applications</li> </ul>	Yes
<ul style="list-style-type: none"> <li>ACL - IP-based</li> </ul>	Yes
<ul style="list-style-type: none"> <li>ACL - IP-based for PLC/routing</li> </ul>	Yes
<ul style="list-style-type: none"> <li>switch-off of non-required services</li> </ul>	Yes
<ul style="list-style-type: none"> <li>blocking of communication via physical ports</li> </ul>	Yes
<ul style="list-style-type: none"> <li>log file for unauthorized access</li> </ul>	No
<b>product functions / time</b>	
product function / SICLOCK support	Yes
product function / pass on time synchronization	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>NTP</li> </ul>	Yes
<b>further information / internet-Links</b>	
Internet-Link	
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> </ul>	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
<ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
<ul style="list-style-type: none"> <li>to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>to website: CAx-Download-Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
security information	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. Third-party products that may be in use should also be considered. For more information about industrial security, visit

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