

### product type designation



### CP 343-1 Lean

-- spare part -- communications processor CP 343-1 Lean for connection of SIMATIC S7-300 to Industrial Ethernet via TCP/IP and UDP, multicast, send/receive with and without RFC1006, fetch/ write, S7 communication (server), PROFINET IO device integrated 2-port switch ERTEC 200, module exchange without PG, SNMP diagnostics, initialization via LAN, 2x RJ45 connection for LAN with 10/100 Mbps.

product brand name	SIMATIC NET
Technical Product Detail Page	<a href="https://l.siemens.com/1P6GK7343-1CX10-0XE0">https://l.siemens.com/1P6GK7343-1CX10-0XE0</a>
<b>transfer rate</b>	
transfer rate	
<ul style="list-style-type: none"> <li>at the 1st interface</li> </ul>	10 ... 100 Mbit/s
<b>interfaces</b>	
number of interfaces / according to Industrial Ethernet	2
number of electrical connections	
<ul style="list-style-type: none"> <li>at the 1st interface / according to Industrial Ethernet</li> <li>for power supply</li> </ul>	2 1
type of electrical connection	
<ul style="list-style-type: none"> <li>of Industrial Ethernet interface</li> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>	RJ45 port RJ45 port
type of electrical connection	
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	2-pole plugable terminal block
<b>supply voltage, current consumption, power loss</b>	
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	
<ul style="list-style-type: none"> <li>from backplane bus / at DC / at 5 V / typical</li> <li>from external supply voltage / at DC / at 24 V / typical</li> <li>from external supply voltage / at DC / at 24 V / maximum</li> </ul>	0.2 A 0.16 A 0.2 A
power loss [W]	5.8 W
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>for vertical installation / during operation</li> <li>for horizontally arranged busbars / during operation</li> <li>during storage</li> <li>during transport</li> </ul>	0 ... 40 °C 0 ... 60 °C -40 ... +70 °C -40 ... +70 °C
relative humidity	
<ul style="list-style-type: none"> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %
protection class IP	IP20

design, dimensions and weights	
module format	Compact module S7-300 single width
width	40 mm
height	125 mm
depth	120 mm
net weight	0.22 kg
fastening method	Yes
<ul style="list-style-type: none"> <li>• S7-300 rail mounting</li> </ul>	Yes
performance data / open communication	
number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	8
data volume	
<ul style="list-style-type: none"> <li>• as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte
<ul style="list-style-type: none"> <li>• as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte
<ul style="list-style-type: none"> <li>• as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	2 Kibyte
number of Multicast stations	8
performance data / S7 communication	
number of possible connections / for S7 communication	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	4
service	
<ul style="list-style-type: none"> <li>• of SIMATIC communication / as server</li> </ul>	Yes
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	12
performance data / PROFINET communication / as PN IO controller	
product function / PROFINET IO controller	No
performance data / PROFINET communication / as PN IO device	
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>	512 byte
<ul style="list-style-type: none"> <li>• as user data for output variables / as PROFINET IO device / maximum</li> </ul>	512 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
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> </ul>	Yes
<ul style="list-style-type: none"> <li>• DCP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• LLDP</li> </ul>	Yes
configuration software	
<ul style="list-style-type: none"> <li>• required</li> </ul>	STEP 7 V5.4 or higher / STEP 7 Professional V11 (TIA Portal) or 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
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
product functions / diagnostics	
product function / web-based diagnostics	Yes

product functions / switch	
product feature / switch	Yes
product function	
• switch-managed	No
• with IRT / PROFINET IO switch	No
• configuration with STEP 7	Yes
product functions / redundancy	
product function	
• ring redundancy	Yes
• redundancy manager	No
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product functions / security	
product function	
• password protection for Web applications	No
• ACL - IP-based	Yes
• ACL - IP-based for PLC/routing	No
• switch-off 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
product function / pass on time synchronization	Yes
protocol / is supported	
• NTP	Yes
standards, specifications, approvals	
certificate of suitability / CE marking	Yes
certificate of suitability / UKCA marking	Yes
certificate of suitability / KC approval	Yes
certificate of suitability / Regulatory Compliance Mark (RCM)	Yes
certificate of suitability / RoHS conformity	Yes
certificate of suitability / EAC approval	Yes
standards, specifications, approvals / hazardous environments / header	
certificate of suitability / ATEX	Yes
certificate of suitability / IECEx	Yes
certificate of suitability / ULhazloc approval	Yes
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
certificate of suitability / FM registration	Yes
standards, specifications, approvals / marine classification / header	
Marine classification association / Polski Rejestr Statkow (PRS)	Yes
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	77.4 kg
• during manufacturing	26.4 kg
• during operation	50.46 kg
• after end of life	0.54 kg
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to website: Industrial communication	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="https://siemens.com/cax">https://siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks.

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**Approvals / Certificates**

**General Product Approval**



[Declaration of Conformity](#)



[China RoHS](#)

**General Product Approval**

**EMV**



[China RoHS](#)



**For use in hazardous locations**

**Maritime application**



[FM](#)

[CCC-Ex](#)



**other**

**Environment**

[Confirmation](#)



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