

### Product type designation

### CP 343-1 BACnet

PLEASE NOTE: SALES WILL BE RESTRICTED AS OF APR. 30TH 2012 [HTTP://SUPPORT.AUTOMATION.SIEMENS.COM/WW/VIEW/EN/58567948](http://SUPPORT.AUTOMATION.SIEMENS.COM/WW/VIEW/EN/58567948) SIEMENS BUILDING TECHNOLOGIES COMMUNICATIONS PROCESSOR CP 343-1 BACNET FOR CONNECTION OF SIMATIC S7-300 TO BACNET. ADDITIONAL RUNTIME LICENSE REQUIRED FOR USE OF BACNET PROTOCOL ON CP ATTENTION: ORDER PLACEMENT ONLY VIA ORG-ID: A1201396 !



### 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
- for power supply

1

1

Type of electrical connection

- at the 1st interface / acc. to Industrial Ethernet
- for power supply

RJ45 port

2-pole plugable terminal block

### 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> <li>• from external supply voltage / at DC / at 24 V / maximum</li> </ul>	0.2 A 0.2 A
Active power loss	5.8 W

Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>	0 ... 60 °C -40 ... +70 °C -40 ... +70 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP20

Design, dimensions and weight	
Module format	Compact module S7-300 single width
Width	40 mm
Height	125 mm
Depth	120 mm
Net weight	0.22 kg

Product properties, functions, components / general	
Number of units	
<ul style="list-style-type: none"> <li>• per CPU / maximum</li> <li>• Note</li> </ul>	1 without BACnet protocol: max. 8 per station

Performance data / open communication	
Number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	8
Amount of data	
<ul style="list-style-type: none"> <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 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> <li>• with PG connections / maximum</li> <li>• with PG/OP connections / maximum</li> </ul>	4 2 2

### Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode	12
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### Performance data / BACnet

Protocol / is supported / BACnet/IP	Yes
Product function	
<ul style="list-style-type: none"> <li>• BACnet device type AAC (Advanced Application Controller)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• peer-to-peer between BACnet automation stations</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• BBMD (BACnet Broadcast Management Device)</li> </ul>	Yes
Number of BACnet I/O objects / maximum	800
Total number of BACnet objects / maximum	1500
Influence on cycle time / of automation system	no effect
Storage capacity / of S7 CPU RAM / required	4 Kibyte
Standard / for BACnet	Communication based on TCP/IP, BACnet server according to EN 16484, Part 5

### Performance data / telecontrol

Protocol / is supported	
<ul style="list-style-type: none"> <li>• TCP/IP</li> </ul>	Yes

### Product functions / management, configuration

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 Version V5.4 SP5 plus HSP or higher. To use the BACnet-Protocol on the module an additional runtime license - Building Integration (Reference-Number S55372-C107) is necessary. To order the license please contact your regional Siemens partner.

### Product functions / Diagnosis

Product function / Web-based diagnostics	No
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### Product functions / switch

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

## Product functions / Time

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

## Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"><li>• to website: Selector SIMATIC NET SELECTION TOOL</li><li>• to website: Industrial communication</li><li>• to website: Industry Mall</li><li>• to website: Information and Download Center</li><li>• to website: Image database</li><li>• to website: CAx Download Manager</li><li>• to website: Industry Online Support</li></ul>	<p><a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a></p> <p><a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a></p> <p><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></p> <p><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a></p> <p><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a></p> <p><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>

## Security information

Security information	<p>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 <a href="http://www.siemens.com/industrialsecurity">http://www.siemens.com/industrialsecurity</a>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a>. (V3.4)</p>
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