

### Product type designation

### CP 343-1 Lean

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 replacement without PG, SNMP diagnostics, initialization via LAN, 2x RJ45 connection for LAN with 10/100 Mbit/s



### Transmission rate

#### Transfer rate

- at the 1st interface

10 ... 100 Mbit/s

### Interfaces

Number of interfaces / acc. to Industrial Ethernet

2

Number of electrical connections

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

2

1

Type of electrical connection

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

RJ45 port

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

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> </ul>            | 0.2 A  |
| <ul style="list-style-type: none"> <li>• from external supply voltage / at DC / at 24 V / typical</li> </ul> | 0.16 A |
| <ul style="list-style-type: none"> <li>• from external supply voltage / at DC / at 24 V / maximum</li> </ul> | 0.2 A  |
| Power loss [W]   | 5.8 W  |

### Permitted 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 |
| 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                            |
| Mounting type  |                                    |
| <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        |
| Amount of data  |          |
| <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      |
| Amount of data   |          |
| <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 input 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 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 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 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 functions / Diagnosis

|  |     |
|--|-----|
| 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 |

## Accessories

## Further Information / Internet Links

|   |   |
|---|---|
| Internet-Link                                     |   |
| • to website: Selector SIMATIC NET SELECTION TOOL | <a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>                               |
| • to website: Industrial communication            | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>                 |
| • to website: Industry Mall                       | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>                   |
| • to website: Information and Download Center     | <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> |
| • to website: Image database                      | <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>             |
| • to website: CAx Download Manager                | <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>                                 |
| • to website: Industry Online Support             | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>             |

## Security information

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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 <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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