# SIEMENS

| Product type designation | CP 343-1 ERPC |
|---|---|
| | Communications processor CP 343-1 ERPC for connection of SIMATIC S7-300 CPU to Industrial Ethernet and to various databases Functions: TCP/UDP, S7 comm., open communication with a. without RFC1006, Multicast, Web server, Clock time via SIMATIC method or NTP, access protection via IP access list SNMP, DHCP, C-plug, Gigabit interface 1x RJ45 (10/100/1000 MB) |

## Transmission rate

| Transfer rate | |
|---|---|
| ● at the 1st interface | 10 ... 1000 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 |
| ● 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 / external | 24 V |
| Supply voltage / external / at DC / Rated value | 24 V |

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| | |
|---|---|
| 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 | 0.3 A |
| • from external supply voltage / at DC / at 24 V / typical | 0.16 A |
| • from external supply voltage / at DC / at 24 V / maximum | 0.6 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 operation | 0 ... 60 °C |
| • during storage | -40 ... +70 °C |
| • during transport | -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 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 | 8 |
| Amount of data | |
| • 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 | 8 |

## Performance data / S7 communication

| | |
|---|---|
| Number of possible connections / for S7 communication | |
| • maximum | 8 |
| • Note | also 2 PG/OP connections and 1 diagnostics connection |

| Performance data / multi-protocol mode | |
|---|---|
| Number of active connections / with multi-protocol mode | 32 |

| Performance data / IT functions | |
|---|---|
| Number of possible connections | |
| • as server / by means of HTTP / maximum | 4 |
| Number of possible write cycles / of the flash memory cells | 100000 |

| Performance data / ERPC functions | |
|---|---|
| Number of possible connections / for communication with ERP or MES stations / maximum | 8 |
| Number of possible logical triggers / per CP / maximum | 8 |
| Number of configurable ERPC symbols for database access | |
| • per CPU / maximum | 2000 |
| • per logical trigger / maximum | 255 |
| Amount of data / as user data and header information per logical trigger | 8 Kibyte |

| 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 V5.4 SP5 + HSP or higher |
| Identification & maintenance function | |
| • I&M0 - device-specific information | Yes |
| • I&M1 – higher-level designation/location designation | Yes |

| Product functions / Diagnosis | |
|---|---|
| Product function / Web-based diagnostics | Yes |

| Product functions / switch | |
|---|---|
| Product feature / Switch | No |

## Product functions / Redundancy

| Product function | |
|---|---|
| • Ring redundancy | No |

## 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 |

## Further Information / Internet Links

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

## Security information

| 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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