

product type designation

CM 1542-5

Communication module CM 1542-5 for connection of S7-1500 to PROFIBUS DP, DPV1 master or DP slave, S7 and PG/OP communication, data record routing, time-of-day synchronization, Diagnostics



transfer rate

transfer rate

- at the 1st interface / acc. to PROFIBUS

9.6 kbit/s ... 12 Mbit/s

interfaces

number of interfaces / acc. to Industrial Ethernet

0

number of electrical connections

- at the 1st interface / acc. to PROFIBUS

1

type of electrical connection

- at the 1st interface / acc. to PROFIBUS

9-pin Sub-D socket (RS485)

supply voltage, current consumption, power loss

type of voltage / of the supply voltage

DC

supply voltage / 1 / from backplane bus

15 V

relative symmetrical tolerance / at DC

- at 15 V

3 %

consumed current

- from backplane bus / at DC / at 15 V / typical

0.2 A

power loss [W]

3 W

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 weights

| | |
|-------------------------|-------------------------------------|
| module format | Compact module S7-1500 single width |
| width | 35 mm |
| height | 142 mm |
| depth | 129 mm |
| net weight | 0.4 kg |
| fastening method | |
| • S7-1500 rail mounting | Yes |

product features, product functions, product components / general

| | |
|---------------------|-----------------------|
| number of units | |
| • per CPU / maximum | 8 |
| • note | depending on CPU type |

performance data / open communication

| | |
|---|----------|
| number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum | 30 |
| data volume | |
| • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum | 240 byte |

performance data / PROFIBUS DP

| | |
|--|-----------|
| service / as DP master | |
| • DPV1 | Yes |
| number of DP slaves | |
| • on DP master / operable | 125 |
| data volume | |
| • of the address range of the inputs / as DP master / total | 8192 byte |
| • of the address range of the outputs / as DP master / total | 8192 byte |

| | |
|---|----------|
| <ul style="list-style-type: none"> • of the address range of the inputs / per DP slave | 244 byte |
| <ul style="list-style-type: none"> • of the address range of the outputs / per DP slave | 244 byte |
| service / as DP slave | |
| <ul style="list-style-type: none"> • DPV0 | Yes |
| <ul style="list-style-type: none"> • DPV1 | Yes |
| data volume | |
| <ul style="list-style-type: none"> • of the address range of the inputs / as DP slave / total | 240 byte |
| <ul style="list-style-type: none"> • of the address range of the outputs / as DP slave / total | 240 byte |

performance data / S7 communication

| | |
|---|---|
| number of possible connections / for S7 communication | |
| <ul style="list-style-type: none"> • maximum | 48; depending on the system upper limit |

performance data / multi-protocol mode

| | |
|---|----|
| number of active connections / with multi-protocol mode | 48 |
|---|----|

performance data / telecontrol

| | |
|--|----|
| protocol / is supported | |
| <ul style="list-style-type: none"> • TCP/IP | No |

product functions / management, configuration, engineering

| | |
|--|--|
| configuration software | |
| <ul style="list-style-type: none"> • required | STEP 7 Professional V12 (TIA Portal) or higher |
| identification & maintenance function | |
| <ul style="list-style-type: none"> • I&M0 - device-specific information | Yes |
| <ul style="list-style-type: none"> • I&M1 – higher level designation/location designation | Yes |

product functions / diagnostics

| | |
|--|----------------------|
| product function / web-based diagnostics | Yes; via S7-1500 CPU |
|--|----------------------|

product functions / time

| | |
|---|-----|
| product function / pass on time synchronization | Yes |
|---|-----|

further information / internet-Links

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|---|---|
| Internet-Link | |
| <ul style="list-style-type: none"> • to website: Industrial communication | http://www.siemens.com/simatic-net |
| <ul style="list-style-type: none"> • to website: Industry Mall | https://mall.industry.siemens.com |
| <ul style="list-style-type: none"> • to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| <ul style="list-style-type: none"> • to website: Image database | http://automation.siemens.com/bilddb |
| <ul style="list-style-type: none"> • to website: CAx-Download-Manager | http://www.siemens.com/cax |

security information

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