



Figure similar

SIMATIC S7-1500, CM PTP RS422/485 BA Communication module for Serial connection RS422, RS485 Freeport, 3964 (R), USS, 19200 Kbit/s, 15-Pin D-sub socket

| General information | |
|--|-------------------------------|
| Product type designation | CM PtP RS 422 / 485 BA |
| Product function | |
| • I&M data | Yes; I&M 0 |
| • Fast startup | Yes |
| Engineering with | |
| • STEP 7 TIA Portal configurable/integrated from version | V12 / V12 |
| • STEP 7 configurable/integrated from version | V5.5 SP2 with GSD file |
| • PROFIBUS from GSD version/GSD revision | - / - |
| • PROFINET from GSD version/GSD revision | V2.3 |
| Installation type/mounting | |
| Rail mounting | Yes; S7-1500 mounting rail |
| Supply voltage | |
| Design of the power supply | system power supply |
| Input current | |
| Current consumption (rated value) | 43 mA; From the backplane bus |
| Power | |
| Power consumption from the backplane bus | 0.65 W |
| Power loss | |
| Power loss, typ. | 0.6 W |
| Address area | |
| Address space per module | |
| • Inputs | 8 byte |
| Interface types | |
| RS 485 | |
| • Transmission rate, max. | 19.2 kbit/s |
| • Cable length, max. | 1 200 m |
| RS 422 | |
| • Transmission rate, max. | 19.2 kbit/s |
| • Cable length, max. | 1 200 m |
| • 4-wire full duplex connection | Yes |
| • 4-wire multipoint connection | No |
| Protocols | |
| Integrated protocols | |
| Freeport | |
| — Telegram length, max. | 1 kbyte |
| — Bits per character | 7 or 8 |
| — Number of stop bits | 1 or 2 bit |

| | |
|-------------------------|--|
| — Parity | None, even, odd, always 1, always 0, any |
| 3964 (R) | |
| — Telegram length, max. | 1 kbyte |
| — Bits per character | 7 or 8 |
| — Number of stop bits | 1 or 2 bit |
| — Parity | None, even, odd, always 1, always 0, any |

| | |
|---|---------|
| Telegram buffer | |
| • Buffer memory for telegrams | 2 kbyte |
| • Number of telegrams which can be buffered | 255 |

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|--|--|
| Interrupts/diagnostics/status information | |
|--|--|

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| Diagnostics function | Yes |
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| Alarms | |
| • Diagnostic alarm | Yes |
| • Hardware interrupt | No |

| | |
|------------------|-----|
| Diagnoses | |
| • Wire-break | Yes |

| | |
|-----------------------------------|-----------------|
| Diagnostics indication LED | |
| • RUN LED | Yes; green LED |
| • ERROR LED | Yes; red LED |
| • Receive RxD | Yes; Yellow LED |
| • Transmit TxD | Yes; Yellow LED |

| | |
|-----------------------------|--|
| Potential separation | |
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| between backplane bus and interface | Yes |
|-------------------------------------|-----|

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| Isolation | |
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| Isolation tested with | 707 V DC (type test) |
|-----------------------|----------------------|

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| Ambient conditions | |
|---------------------------|--|

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| Ambient temperature during operation | |
| • horizontal installation, min. | 0 °C |
| • horizontal installation, max. | 60 °C |
| • vertical installation, min. | 0 °C |
| • vertical installation, max. | 40 °C |

| | |
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| Altitude during operation relating to sea level | |
| • Installation altitude above sea level, max. | 5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual |

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| Decentralized operation | |
|--------------------------------|--|

| | |
|---------------------------------|-----|
| to SIMATIC S7-300 | Yes |
| to SIMATIC S7-400 | Yes |
| to SIMATIC S7-1500 | Yes |
| to standard PROFINET controller | Yes |

| | |
|-------------------|--|
| Dimensions | |
|-------------------|--|

| | |
|--------|--------|
| Width | 35 mm |
| Height | 147 mm |
| Depth | 127 mm |

| | |
|----------------|--|
| Weights | |
|----------------|--|

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|-----------------|---------|
| Weight, approx. | 0.22 kg |
|-----------------|---------|

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|------------------------|--|--|--|
| Classifications | | | |
|------------------------|--|--|--|

| | Version | Classification |
|--------|---------|----------------|
| eClass | 14 | 27-24-22-08 |
| eClass | 12 | 27-24-22-08 |
| eClass | 9.1 | 27-24-22-08 |
| eClass | 9 | 27-24-22-08 |
| eClass | 8 | 27-24-22-08 |
| eClass | 7.1 | 27-24-22-08 |
| eClass | 6 | 27-24-22-08 |
| ETIM | 10 | EC001423 |
| ETIM | 9 | EC001423 |
| ETIM | 8 | EC001423 |

| | | |
|--------|----|-------------|
| ETIM | 7 | EC001423 |
| IDEA | 4 | 3564 |
| UNSPSC | 15 | 32-15-17-05 |

Approvals / Certificates

General Product Approval



[Miscellaneous](#)

[China RoHS](#)

[Manufacturer Declaration](#)



General Product Approval For use in hazardous locations



[EM](#)



[EM](#)

For use in hazardous locations Maritime application

[CCC-Ex](#)



[Type Examination Certificate](#)

[Miscellaneous](#)



Maritime application



[NK / Nippon Kaiji Kyokai](#)



Maritime application

[CCS \(China Classification Society\)](#)



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