



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                                                                                    |
| Interrupts/diagnostics/status information       |                                                                                        |
| Diagnostics function                            | Yes                                                                                    |
| 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                            |                                                                                        |
| between backplane bus and interface             | Yes                                                                                    |
| Isolation                                       |                                                                                        |
| Isolation tested with                           | 707 V DC (type test)                                                                   |
| Ambient conditions                              |                                                                                        |
| Ambient temperature during operation            |                                                                                        |
| • horizontal installation, min.                 | 0 °C                                                                                   |
| • horizontal installation, max.                 | 60 °C                                                                                  |
| • vertical installation, min.                   | 0 °C                                                                                   |
| • vertical installation, max.                   | 40 °C                                                                                  |
| 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 |
| 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                                         |                                                                                        |
| Weight, approx.                                 | 0.22 kg                                                                                |
| 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           |

## Approvals / Certificates

## General Product Approval

[China RoHS](#)[Miscellaneous](#)[KC](#)

## General Product Approval

## For use in hazardous locations

[Declaration of Con-  
formity](#)

## For use in hazardous locations

## Maritime application

[Miscellaneous](#)

## Maritime application

## Environment

[NK / Nippon Kaiji Ky-  
okai](#)[CCS \(China Classifica-  
tion Society\)](#)Siemens  
EcoTech

last modified:

10/23/2025