



Figure similar

SIMATIC S7-1500, CM PTP RS232 HF Communication module for Serial connection RS232, Freeport, 3964 (R), USS, MODBUS RTU Master, Slave, 115200 Kbit/s, 9-pin D-sub connector

| General information                                      |                                          |
|----------------------------------------------------------|------------------------------------------|
| Product type designation                                 | CM PtP RS 232 HF                         |
| 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)                        | 50 mA; From the backplane bus            |
| Power                                                    |                                          |
| Power available from the backplane bus                   | 0.75 W                                   |
| Power loss                                               |                                          |
| Power loss, typ.                                         | 0.6 W                                    |
| Address area                                             |                                          |
| Address space per module                                 |                                          |
| • Inputs                                                 | 8 byte                                   |
| Interface types                                          |                                          |
| RS 232                                                   |                                          |
| • Transmission rate, max.                                | 115.2 kbit/s                             |
| • Cable length, max.                                     | 15 m                                     |
| • RS 232 auxiliary signals                               | RTS, CTS, DTR, DSR, RI, DCD              |
| Protocols                                                |                                          |
| Integrated protocols                                     |                                          |
| Freeport                                                 |                                          |
| — Telegram length, max.                                  | 4 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.                                  | 4 kbyte                                  |
| — Bits per character                                     | 7 or 8                                   |
| — Number of stop bits                                    | 1 or 2 bit                               |

|                                                        |                                                                                        |
|--------------------------------------------------------|----------------------------------------------------------------------------------------|
| — Parity                                               | None, even, odd, always 1, always 0, any                                               |
| <b>Modbus RTU master</b>                               |                                                                                        |
| — Address area                                         | 1 to 247, extended 1 to 65535                                                          |
| — Number of slaves, max.                               | 1                                                                                      |
| <b>MODBUS RTU slave</b>                                |                                                                                        |
| — Address area                                         | 1 to 247, extended 1 to 65535                                                          |
| <b>Telegram buffer</b>                                 |                                                                                        |
| • Buffer memory for telegrams                          | 8 kbyte                                                                                |
| • Number of telegrams which can be buffered            | 255                                                                                    |
| <b>Interrupts/diagnostics/status information</b>       |                                                                                        |
| Diagnostics function                                   | Yes                                                                                    |
| <b>Alarms</b>                                          |                                                                                        |
| • Diagnostic alarm                                     | Yes                                                                                    |
| • Hardware interrupt                                   | No                                                                                     |
| <b>Diagnoses</b>                                       |                                                                                        |
| • Wire-break                                           | Yes                                                                                    |
| <b>Diagnostics indication LED</b>                      |                                                                                        |
| • RUN LED                                              | Yes; green LED                                                                         |
| • ERROR LED                                            | Yes; red LED                                                                           |
| • Receive RxD                                          | Yes; Yellow LED                                                                        |
| • Transmit TxD                                         | Yes; Yellow LED                                                                        |
| <b>Potential separation</b>                            |                                                                                        |
| between backplane bus and interface                    | Yes                                                                                    |
| <b>Isolation</b>                                       |                                                                                        |
| Isolation tested with                                  | 707 V DC (type test)                                                                   |
| <b>Ambient conditions</b>                              |                                                                                        |
| <b>Ambient temperature during operation</b>            |                                                                                        |
| • horizontal installation, min.                        | 0 °C                                                                                   |
| • horizontal installation, max.                        | 60 °C                                                                                  |
| • vertical installation, min.                          | 0 °C                                                                                   |
| • vertical installation, max.                          | 40 °C                                                                                  |
| <b>Altitude during operation relating to sea level</b> |                                                                                        |
| • Installation altitude above sea level, max.          | 5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual |
| <b>Decentralized operation</b>                         |                                                                                        |
| to SIMATIC S7-300                                      | Yes                                                                                    |
| to SIMATIC S7-400                                      | Yes                                                                                    |
| to SIMATIC S7-1500                                     | Yes                                                                                    |
| to standard PROFINET controller                        | Yes                                                                                    |
| <b>Dimensions</b>                                      |                                                                                        |
| Width                                                  | 35 mm                                                                                  |
| Height                                                 | 147 mm                                                                                 |
| Depth                                                  | 127 mm                                                                                 |
| <b>Weights</b>                                         |                                                                                        |
| Weight, approx.                                        | 0.22 kg                                                                                |

last modified:

10/3/2023 