

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



Figure similar

| General information                                       |                               |
|---|-------------------------------|
| Product type designation                                  | CM PtP RS 232 HF              |
| Product function  |                               |
| • I&M data  | Yes; I&M 0                    |
| Engineering with  |                               |
| • STEP 7 TIA Portal configurable/integrated as of version | V12 / V12                     |
| • STEP 7 configurable/integrated as of version            | V5.5 SP2 with GSD file        |
| • PROFIBUS as of GSD version/GSD revision                 | - / -                         |
| • PROFINET as of GSD version/GSD revision                 | V2.3 / -                      |
| Installation type/mounting                                |                               |
| Rail mounting   | Yes; S7-1500 mounting rail    |
| Supply voltage  |                               |
| Type of supply voltage                                    | 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 |
| Modbus RTU master                           |  |
| — Address area                              | 1 to 247, extended 1 to 65535            |
| — Number of slaves, max.                    | 1  |
| MODBUS RTU slave                            |  |
| — Address area                              | 1 to 247, extended 1 to 65535            |
| Telegram buffer                             |  |
| • Buffer memory for telegrams               | 8 kbyte                                  |
| • Number of telegrams which can be buffered | 255                                      |
| Interrupts/diagnostics/status information   |  |
| Diagnostics function                        | Yes                                      |
| Alarms                                      |  |
| • Diagnostic alarm                          | Yes                                      |
| • Hardware interrupt                        | No                                       |
| Diagnostic messages                         |  |
| • 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 |

#### Decentralized operation

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

#### Dimensions

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

#### Weights

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

|                       |            |
|-----------------------|------------|
| <b>last modified:</b> | 08/12/2019 |
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