




SIMATIC ET 200SP, CM PtP communication module for serial connection RS422, RS485 and RS232, Freeport, 3964 (R), USS, MODBUS RTU Master, Slave, 115200 Kbit/s

| General information   |   |
|---|---|
| Product type designation  | CM PtP  |
| Firmware version  |   |
| <ul style="list-style-type: none"> <li>FW update possible</li> </ul>  | Yes   |
| Product function  |   |
| <ul style="list-style-type: none"> <li>I&amp;M data</li> </ul>  | Yes; I&M0 to I&M3   |
| Engineering with  |   |
| <ul style="list-style-type: none"> <li>STEP 7 TIA Portal configurable/integrated from version</li> <li>STEP 7 configurable/integrated from version</li> <li>PROFIBUS from GSD version/GSD revision</li> <li>PROFINET from GSD version/GSD revision</li> </ul> | V12 / V12<br>V5.5 SP2 with GSD file<br>GSD as of Revision 5<br>GSDML V2.3 |
| Supply voltage  |   |
| Rated value (DC)  | 24 V  |
| permissible range, lower limit (DC)   | 19.2 V  |
| permissible range, upper limit (DC)   | 28.8 V  |
| Reverse polarity protection   | Yes   |
| Input current   |   |
| Current consumption (rated value)   | 29 mA   |
| Power loss  |   |
| Power loss, typ.  | 0.7 W   |
| Address area  |   |
| Address space per module  |   |
| <ul style="list-style-type: none"> <li>Inputs</li> </ul>  | 8 byte  |
| 1. Interface  |   |
| Interface types   |   |
| <ul style="list-style-type: none"> <li>RS 485</li> <li>RS 422</li> <li>RS 232</li> </ul>  | Yes<br>Yes<br>Yes   |
| Interface types   |   |
| RS 232  |   |
| <ul style="list-style-type: none"> <li>Transmission rate, max.</li> <li>Cable length, max.</li> <li>RS 232 auxiliary signals</li> </ul>   | 115.2 kbit/s<br>15 m<br>RTS, CTS, DTR, DSR, RI, DCD                       |
| RS 485  |   |
| <ul style="list-style-type: none"> <li>Transmission rate, max.</li> <li>Cable length, max.</li> </ul>   | 115.2 kbit/s<br>1 200 m   |
| RS 422  |   |
| <ul style="list-style-type: none"> <li>Transmission rate, max.</li> <li>Cable length, max.</li> <li>4-wire full duplex connection</li> </ul>  | 115.2 kbit/s<br>1 200 m<br>Yes  |

|  |   |
|--|---|
| • 4-wire multipoint connection                   | Yes   |
| <b>Protocols</b>                                 |   |
| Integrated protocols                             |   |
| Freeport   |   |
| — Telegram length, max.                          | 2 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.                          | 2 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.                         | 32  |
| MODBUS RTU slave                                 |   |
| — Address area                                   | 1 to 247, extended 1 to 65535   |
| Telegram buffer                                  |   |
| • Buffer memory for telegrams                    | 4 kbyte   |
| • Number of telegrams which can be buffered      | 255   |
| <b>Interrupts/diagnostics/status information</b> |   |
| Diagnostics function                             | Yes   |
| Alarms   |   |
| • Diagnostic alarm                               | Yes   |
| • Hardware interrupt                             | No  |
| Diagnoses  |   |
| • Wire-break                                     | Yes   |
| Diagnostics indication LED                       |   |
| • Monitoring of the supply voltage (PWR-LED)     | Yes; green PWR LED  |
| • for module diagnostics                         | Yes; green/red DIAG LED   |
| • Receive RxD                                    | Yes; green LED  |
| • Transmit TxD                                   | Yes; green 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>                        |   |
| Ambient temperature during operation             |   |
| • horizontal installation, min.                  | -30 °C; From FS03   |
| • horizontal installation, max.                  | 60 °C   |
| • vertical installation, min.                    | -30 °C; From FS03   |
| • vertical installation, max.                    | 50 °C   |
| Altitude during operation relating to sea level  |   |
| • Installation altitude above sea level, max.    | 2 000 m; On request: Installation altitudes greater than 2 000 m                              |
| <b>Decentralized operation</b>                   |   |
| to SIMATIC S7-300                                | Yes   |
| to SIMATIC S7-400                                | Yes   |
| to SIMATIC S7-1200                               | Yes   |
| to SIMATIC S7-1500                               | Yes   |
| to standard PROFINET controller                  | Yes   |
| <b>Dimensions</b>                                |   |
| Width  | 15 mm   |
| Height   | 73 mm   |
| Depth  | 58 mm   |
| <b>Weights</b>                                   |   |
| Weight, approx.                                  | 30 g  |
| last modified:                                   | 8/23/2023  |