




SIMATIC S7-1500, CM PTP RS232 BA Communication module for Serial connection RS232, Freeport, 3964 (R), USS, 19200 Kbit/s, 9-pin D-sub connector

| General information   |   |
|---|---|
| Product type designation  | CM PtP RS 232 BA  |
| Product function  |   |
| <ul style="list-style-type: none"> <li>I&amp;M data</li> <li>Fast startup</li> </ul>  | Yes; I&M 0<br>Yes   |
| 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>- / -<br>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  |   |
| <ul style="list-style-type: none"> <li>Inputs</li> </ul>  | 8 byte  |
| 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>   | 19.2 kbit/s<br>15 m<br>RTS, CTS, DTR, DSR, RI, DCD                          |
| Protocols   |   |
| Integrated protocols  |   |
| Freeport  |   |
| <ul style="list-style-type: none"> <li>Telegram length, max.</li> <li>Bits per character</li> <li>Number of stop bits</li> <li>Parity</li> </ul>  | 1 kbyte<br>7 or 8<br>1 or 2 bit<br>None, even, odd, always 1, always 0, any |
| 3964 (R)  |   |
| <ul style="list-style-type: none"> <li>Telegram length, max.</li> <li>Bits per character</li> </ul>   | 1 kbyte<br>7 or 8   |

|  |   |
|--|---|
| — Number of stop bits                                  | 1 or 2 bit  |
| — Parity   | None, even, odd, always 1, always 0, any  |
| <b>Telegram buffer</b>                                 |   |
| • Buffer memory for telegrams                          | 2 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   |
| <b>last modified:</b>                                  | 11/3/2021  |