



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> </ul>	V12 / V12
<ul style="list-style-type: none"> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP2 with GSD file
<ul style="list-style-type: none"> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	GSD as of Revision 5
<ul style="list-style-type: none"> <li>PROFINET from GSD version/GSD revision</li> </ul>	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> </ul>	Yes
<ul style="list-style-type: none"> <li>RS 422</li> </ul>	Yes
<ul style="list-style-type: none"> <li>RS 232</li> </ul>	Yes
Interface types	
RS 232	
<ul style="list-style-type: none"> <li>Transmission rate, max.</li> </ul>	115.2 kbit/s
<ul style="list-style-type: none"> <li>Cable length, max.</li> </ul>	15 m
<ul style="list-style-type: none"> <li>RS 232 auxiliary signals</li> </ul>	RTS, CTS, DTR, DSR, RI, DCD
RS 485	
<ul style="list-style-type: none"> <li>Transmission rate, max.</li> </ul>	115.2 kbit/s
<ul style="list-style-type: none"> <li>Cable length, max.</li> </ul>	1 200 m
RS 422	
<ul style="list-style-type: none"> <li>Transmission rate, max.</li> </ul>	115.2 kbit/s

- Cable length, max. 1 200 m
- 4-wire full duplex connection Yes
- 4-wire multipoint connection Yes

## Protocols

### 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

## Interrupts/diagnostics/status information

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

## 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. -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

## Decentralized operation

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

## Dimensions

Width 15 mm

Height 73 mm

Depth 58 mm

## Weights

Weight, approx. 30 g

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