

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	
• 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	
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.	19.2 kbit/s
• Cable length, max.	15 m
• RS 232 auxiliary signals	RTS, CTS, DTR, DSR, RI, DCD
Protocols	
Integrated protocols	
Freeport	
— Telegram length, max.	1 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.	1 kbyte
— Bits per character	7 or 8
— Number of stop bits	1 or 2 bit
— Parity	None, even, odd, always 1, always 0, any
Telegram buffer	
• Buffer memory for telegrams	2 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	
• 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

### Dimensions

Width 35 mm

Height 147 mm

Depth 127 mm

### Weights

Weight, approx. 0.22 kg

**last modified:** 10/13/2020