SIEMENS

Data sheet   **6ES7137-6AA00-0BA0**

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	
● FW update possible	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
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	GSD as of Revision 5
● PROFINET from GSD version/GSD revision	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	
● Inputs	8 byte

1. Interface	
Interface types	
● RS 485	Yes
● RS 422	Yes
● RS 232	Yes

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
RS 485	
● Transmission rate, max.	115.2 kbit/s
● Cable length, max.	1 200 m
RS 422	
● Transmission rate, max.	115.2 kbit/s

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● 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

last modified: 1/24/2021 ⎁

7/8/2022