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

- Cable length	1 000 m
Cable length, max.	1 200 m
4-wire full duplex connection	Yes
4-wire multipoint connection	Yes
Protocols	
Integrated protocols	
Freeport	2 khyta
— Telegram length, max.	2 kbyte
Bits per character	7 or 8 1 or 2 bit
 — Number of stop bits — Parity 	1 or 2 bit None, even, odd, always 1, always 0, any
— Panty 3964 (R)	None, even, oud, aiways 1, aiways 0, any
— 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.	00 °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: