SIEMENS

SIMATIC S7-1500, CM PTP RS422/485 HF Communication module for Serial connection RS422 and RS485, Freeport, 3964 (R), USS, MODBUS RTU Master, Slave, 115200 Kbit/s, 15-Pin D-sub socket

Figure similar

General information	
Product type designation	CM PtP RS 422 / 485 HF
Product function	
● I&M data	Yes; I&M 0
● Fast startup	Yes
Engineering with	
● STEP 7 TIA Portal configurable/integrated as of version	V12 / V12
● STEP 7 configurable/integrated as of version	V5.5 SP2 with GSD file
● PROFIBUS as of GSD version/GSD revision	- / -
● PROFINET as of 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)	43 mA; From the backplane bus

Power

Power available from the backplane bus	0.65 W

Power loss

Power loss, typ.	0.6 W

Address area

Address space per module

• Inputs	8 byte

Interface types

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, max.	1 200 m
• 4-wire full duplex connection	Yes
• 4-wire multipoint connection	No

Protocols

Integrated protocols

Freeport

— Telegram length, max.	4 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.	4 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	8 kbyte
• Number of telegrams which can be buffered	255

Interrupts/diagnostics/status information

Diagnostics function	Yes

Alarms	
• Diagnostic alarm	Yes
• Hardware interrupt	No
Diagnostic messages	
• 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
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