SIEMENS

Data sheet

SIMATIC S7-1500, CM PTP RS422/485 HF COMMUNICATION MODUL FOR SERIAL CONNECTION RS422, RS485, FREEPORT, 3964(R), USS, MODBUS RTU MASTER, SLAVE, 115200 KBIT/S, 15-PIN SUB-D FEMALE CONNECTOR

Figure similar

General information	
Product type designation	CM PtP RS422/485 HF
Product function	
• I&M data	Yes; I&M 0
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 possible	Yes; S7-1500 mounting rail
Input current	
Current consumption (rated value)	33 mA; From the backplane bus
Power	
Power available from the backplane bus	0.65 W

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Power loss	
Power loss, typ.	0.6 W

Address area	
Occupied address area	
● Inputs	8 byte

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

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
Fast Startup supported	Yes

Dimensions	
Width	35 mm
Height	147 mm
Depth	127 mm

Weights	
Weight, approx.	0.22 kg

| **last modified:** | 12/06/2016 |