



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

<b>Product type designation</b>	
<b>General information</b>	
<b>Product function</b>	
• I&M data	Yes; I&M 0
<b>Engineering with</b>	
• STEP 7 TIA Portal can be configured/integrated as of version	V12 / V12
• STEP 7 can be configured/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 / -
<b>Installation type/mounting</b>	
Type of fitting, rail mounting	Yes; S7-1500 mounting rail
<b>Input current</b>	
Current consumption (rated value)	33 mA; From the backplane bus
<b>Power</b>	
Power available from the backplane bus	0.65 W
<b>Power losses</b>	
Power loss, typ.	0.6 W
<b>Address area</b>	
<b>Occupied address area</b>	
• Inputs	8 byte

## Interfaces

1st interface	
Interface types	
— RS 422	Yes
— RS 485	Yes
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
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
Frame buffer	
• Buffer memory for message frames	8 kbyte
• Number of message frames which can be buffered	255
Interrupts/diagnostics/status information	
Alarms	
• Diagnostic alarm	Yes
• Hardware interrupt	No
Diagnostic messages	
• Diagnostics	Yes
• Wire break	Yes
Diagnostics indication LED	

- |               |                 |
|---------------|-----------------|
| • RUN LED     | Yes; Green LED  |
| • ERROR LED   | Yes; Red LED    |
| • Receive RxD | Yes; yellow LED |
| • Send TxD    | Yes; yellow LED |

### Galvanic isolation

between the backplane bus and interface	Yes
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### Isolation

Isolation checked with	707 V DC (type test)
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### Ambient conditions

#### Ambient temperature in 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
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<b>last modified:</b>	12.03.2015
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