

OFFICIAL DOCUMENT PACKAGE

Manufacturer's Manual

Amikon cover with selected official Siemens technical pages

SIEMENS SIMATIC S7-1500 / ET 200MP

6ES7541-1AB00-0AB0

CM PTP RS422/485 HF COMMUNICATION MODULE

Selected official pages retain the original technical tables, ratings, notes and pagination.

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Technical specifications, original pages 23-25

This technical extract does not replace the complete equipment and system manuals. Check the installed hardware and project before use.

Technical specifications

7.1 Technical specifications

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Product type designation	CM PtP RS422/485 HF
General information	
I&M data	Yes; I&M 0
Engineering with STEP 7 TIA Portal can be configured/integrated as of version	V12.0 / V12.0
STEP 7 can be configured/integrated as of version	V5.5 SP2 or higher with a 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
Supply voltage	
Voltage type of supply voltage	System power supply
Input current	
Current consumption (rated value)	33 mA; from backplane bus
Power	
Power from the backplane bus	0.65 W
Power loss	
Power loss, typ.	0.6 W
Address area	
Occupied address area	
Inputs	8 bytes
Interfaces	
1. Interface	
Interface hardware	
RS 422	Yes
RS 485	Yes

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Interface hardware	
RS 485	
• Transmission rate, max.	115.2 kbps
• Max. cable length	1200 m
RS 422	
• Transmission rate, max.	115.2 kbps
• Max. cable length	1200 m
• 4-wire full duplex connection	Yes
• 4-wire multipoint connection	No
Protocols	
Integrated protocols	
Freeport	
• Frame length, max.	4 kbyte
• Bits per character	7 or 8
• Number of stop bits	1 or 2 bits
• Parity	None, even, odd, always 1, always 0, any
3964 (R)	
• Frame length, max.	4 kbyte
• Bits per character	7 or 8
• Number of stop bits	1 or 2 bits
• Parity	None, even, odd, always 1, always 0, any
Modbus RTU master	
Address area	1 to 247, extended 1 to 65,535
• Max. number of slaves	32
Modbus RTU slave	
Address area	1 to 247, extended 1 to 65,535
Frame buffer	
• Buffer memory for frames	8 kbyte
• Number of frames which can be buffered	255

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Interrupts/diagnostics/status information	
Interrupts	
• Diagnostic interrupt	Yes
• Hardware interrupt	No
Diagnostic messages	
Diagnostics	Yes
• Wire break	Yes
Diagnostics display LED	
• RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
• Receive RxD	Yes; yellow LED
• Send TxD	Yes; yellow LED
Electrical isolation	
• between backplane bus and interface	Yes
Insulation	
Insulation tested with	707 V DC (Type Test)
Ambient conditions	
Operating temperature	
• Horizontal installation, min.	0 °C
• Horizontal installation, max.	60 °C
• Vertical installation, min.	0 °C
• Vertical installation, max.	40 °C
Distributed operation	
• At SIMATIC S7-300	Yes
• At SIMATIC S7-400	Yes
• At SIMATIC S7-1500	Yes
• At Standard Profinet Controller	Yes
• Supports Fast Startup	Yes
Dimensions	
• Width	35 mm
• Height	147 mm
• Depth	127 mm
Weights	
• Weight, approx.	0.22 kg

Additional general technical specifications for SIMATIC S7-1500 are available in the system manual (<http://support.automation.siemens.com/WW/view/en/59191792>).