Technical specifications

7

	6ES7540-1AB00-0AA0
Product type designation	CM PtP RS422/485 BA
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.	19.2 kbps
• Max. cable length	1200 m
RS 422	
• Transmission rate, max.	19.2 kbps
• Max. cable length	1200 m
• 4-wire full duplex connection	Yes
• 4-wire multipoint connection	No
Protocols	
Integrated protocols	
Freeport	
• Frame length, max.	1 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.	1 kbyte
• Bits per character	7 or 8
• Number of stop bits	1 or 2 bits
• Parity	None, even, odd, always 1, always 0, any
Frame buffer	
• Buffer memory for frames	2 kbyte
• Number of frames which can be buffered	255
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

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Electrical isolation	
• between backplane bus and interface	Yes
Insulation	
Insulation tested with	707 V DC
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 S7 -1500 Automation System (http://support.automation.siemens.com/WW/view/en/59191792).

Dimensional drawing

A

This appendix contains the dimensional drawing of the communication module installed on a mounting rail and with a shield bracket. Always observe the specified dimensions for installation in cabinets, control rooms, etc.

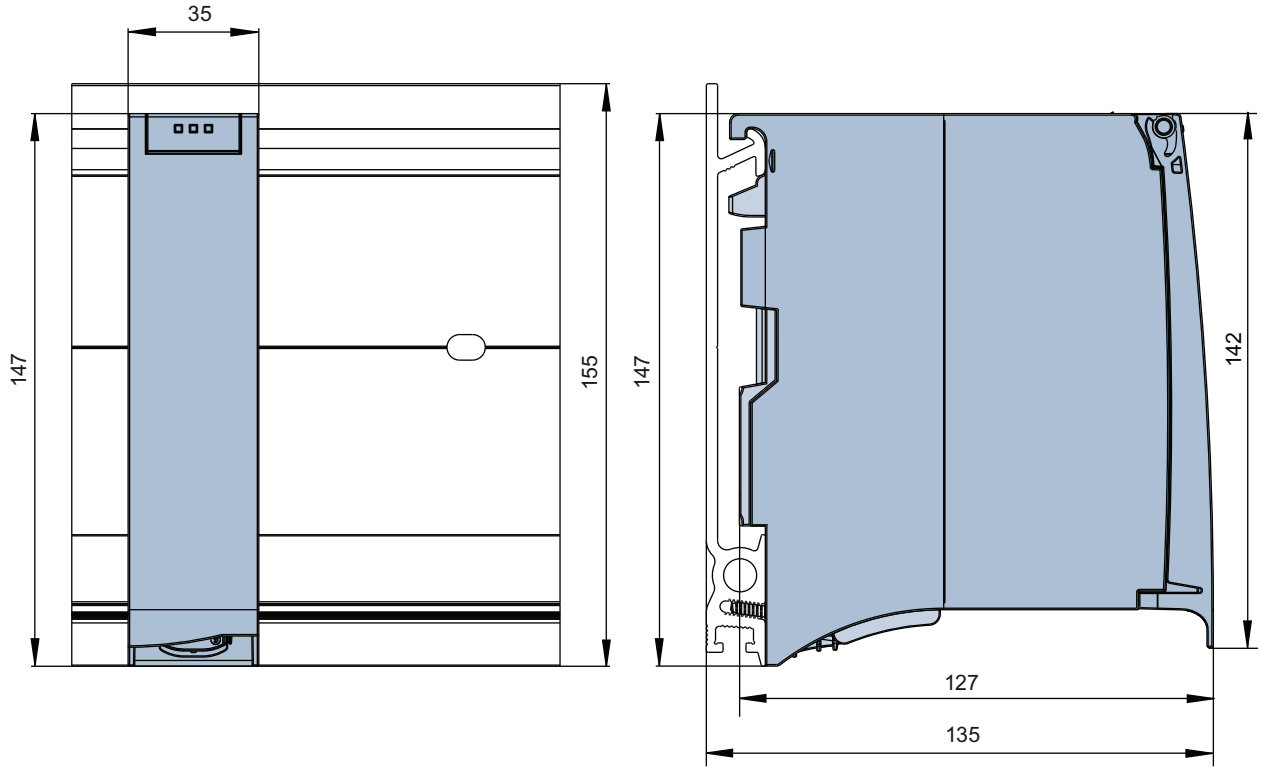


Figure A-1 Dimensional drawing of the CM PtP RS422/485 BA communication module

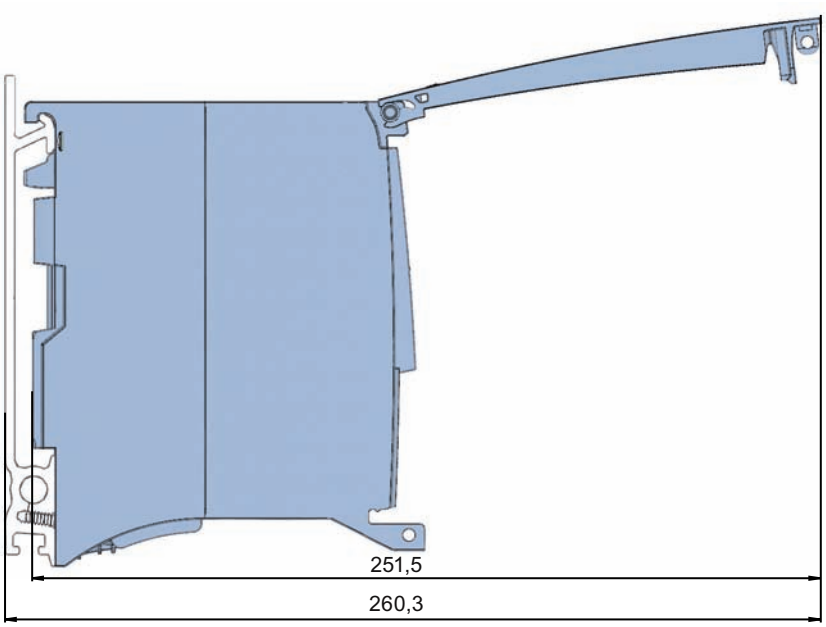


Figure A-2 Dimensional drawing of the CM PtP RS422/485 BA communication module with open front panel