

SIMATIC S7-1500, CM PTP RS422/485 BA communications module for serial connection RS-422 and RS-485 freeport, 3964(R), USS, 19200 bit/s, 15-pin D-sub socket

General information	
Product type designation	CM PtP RS 422 / 485 BA
Product function	
<ul style="list-style-type: none"> I&M data Fast startup 	Yes; I&M 0 Yes
Engineering with	
<ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision 	V18 with HSP 0367 / V19; with older TIA Portal versions configurable as 6ES7540-1AB00-0AA0 V5.5 SP2 with GSD file - / - GSDML V2.42
Installation type/mounting	
Rail mounting	Yes; S7-1500 mounting rail
Supply voltage	
Design of the power supply	system power supply
Input current	
Current consumption (rated value)	43 mA; From the backplane bus
Power	
Power consumption from the backplane bus	0.65 W
Power loss	
Power loss, typ.	0.6 W
Address area	
Address space per module	
<ul style="list-style-type: none"> Inputs Outputs 	8 byte; performance mode: 32 byte 0 byte; performance mode: 32 byte
Interface types	
RS 485	
<ul style="list-style-type: none"> Transmission rate, max. Cable length, max. 	19.2 kbit/s 1 200 m
RS 422	
<ul style="list-style-type: none"> Transmission rate, max. Cable length, max. 4-wire full duplex connection 4-wire multipoint connection 	19.2 kbit/s 1 200 m Yes No
Protocols	
Integrated protocols	
Freeport	
<ul style="list-style-type: none"> Telegram length, max. Bits per character Number of stop bits Parity 	1 kbyte 7 or 8 1 or 2 bit None, even, odd, always 1, always 0, any
3964 (R)	
<ul style="list-style-type: none"> Telegram length, max. Bits per character Number of stop bits Parity 	1 kbyte 7 or 8 1 or 2 bit None, even, odd, always 1, always 0, any
Telegram buffer	
<ul style="list-style-type: none"> Buffer memory for telegrams 	2 kbyte

• Number of telegrams which can be buffered	255	
Interrupts/diagnostics/status information		
Diagnostics function	Yes	
Alarms		
• Diagnostic alarm	Yes	
• Hardware interrupt	No	
Diagnoses		
• 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)	
Security		
signed firmware update	Yes	
Ambient conditions		
Ambient temperature during operation		
• horizontal installation, min.	-30 °C	
• horizontal installation, max.	60 °C	
• vertical installation, min.	-30 °C	
• vertical installation, max.	40 °C	
Altitude during operation relating to sea level		
• Installation altitude above sea level, max.	5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual	
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	
Classifications		
	Version	Classification
eClass	14	27-24-22-08
eClass	12	27-24-22-08
eClass	9.1	27-24-22-08
eClass	9	27-24-22-08
eClass	8	27-24-22-08
eClass	7.1	27-24-22-08
eClass	6	27-24-22-08
ETIM	10	EC001423
ETIM	9	EC001423
ETIM	8	EC001423
ETIM	7	EC001423
Approvals / Certificates		
General Product Approval		



[Manufacturer Declaration](#)

[Miscellaneous](#)



EMV

For use in hazardous locations

[KC](#)



[FM](#)

[CCC-Ex](#)

[Miscellaneous](#)



For use in hazardous locations

Maritime application

[Type Examination Certificate](#)



Maritime application

[NK / Nippon Kaiji Kyokai](#)



[CCS \(China Classification Society\)](#)



last modified:

10/23/2025