



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
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)			
— Telegram length, max.	1 kbyte		
— Bits per character	7 or 8		
— Number of stop bits	1 or 2 bit		
— Parity	None, even, odd, always 1, always 0, any		
Telegram buffer			
• 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		
Absolute humidity			
• dew point, min.	-60 °C; suitable for dry room applications		
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](#)



General Product Approval

EMV

For use in hazardous locations

[China RoHS](#)



[FM](#)

[CCC-Ex](#)

[Miscellaneous](#)

For use in hazardous locations

Maritime application



[Type Examination Certificate](#)



[CCC-Ex](#)



Maritime application



[NK / Nippon Kaiji Kyokai](#)



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

[KR \(Korean Register of Shipping\)](#)

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