

SIMATIC S7-1500, CM PTP RS232 BA communications module for serial connection RS-232, freeport, 3964(R), USS, 19200 bit/s, 9-pin D-sub plug

General information	
Product type designation	CM PTP RS 232 BA
Product function	
• I&M data	Yes; I&M 0
• Fast startup	Yes
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	V18 with HSP 0367 / V19; with older TIA Portal versions configurable as 6ES7540-1AD00-0AA0
• STEP 7 configurable/integrated from version	V5.5 SP2 with GSD file
• PROFIBUS from GSD version/GSD revision	- / -
• PROFINET from GSD version/GSD revision	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)	50 mA; From the backplane bus
Power	
Power consumption from the backplane bus	0.75 W
Power loss	
Power loss, typ.	0.6 W
Address area	
Address space per module	
• Inputs	8 byte; performance mode: 32 byte
• Outputs	0 byte; performance mode: 32 byte
Interface types	
RS 232	
• Transmission rate, max.	19.2 kbit/s
• Cable length, max.	15 m
• RS 232 auxiliary signals	RTS, CTS, DTR, DSR, RI, DCD
Protocols	
Integrated protocols	
Freeport	
— 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
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)

product functions / security / header	
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	9	EC001423
	ETIM	8	EC001423
	ETIM	7	EC001423

Approvals / Certificates	
General Product Approval	



EMV	For use in hazardous locations
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For use in hazardous locations

Maritime application

[Type Examination Certificate](#)



IECEX



ABS



DNV



LRS

Maritime application

[NK / Nippon Kaiji Kyokai](#)



RINA

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



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