

SIMATIC S7-1500, CM PTP RS232 HF communications module for serial connection RS-232, freeport, 3964(R), USS, Modbus RTU master, device, 115200 bit/s, 9-pin D-sub plug

General information	
Product type designation	CM PtP RS 232 HF
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; configurable with older TIA Portal versions as 6ES7541-1AD00-0AB0
• 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.	115.2 kbit/s
• Cable length, max.	15 m
• RS 232 auxiliary signals	RTS, CTS, DTR, DSR, RI, DCD
Protocols	
Integrated protocols	
Freeport	
— Telegram length, max.	4 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.	4 kbyte
— Bits per character	7 or 8
— Number of stop bits	1 or 2 bit
— Parity	None, even, odd, always 1, always 0, any
Modbus RTU master	
— Address area	1 to 247, extended 1 to 65535
— max. number of devices	1
Modbus RTU device	
— Address area	1 to 247, extended 1 to 65535
Telegram buffer	

• Buffer memory for telegrams • Number of telegrams which can be buffered	8 kbyte 255		
Interrupts/diagnostics/status information			
Diagnostics function	Yes		
Alarms			
• Diagnostic alarm • Hardware interrupt	Yes No		
Diagnoses			
• Wire-break	Yes		
Diagnostics indication LED			
• RUN LED • ERROR LED • Receive RxD • Transmit TxD	Yes; green LED Yes; red LED Yes; Yellow LED 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. • horizontal installation, max. • vertical installation, min. • vertical installation, max.	-30 °C 60 °C -30 °C 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		
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](#)


EG-Konf.



[Miscellaneous](#)

[China RoHS](#)


UL

General Product Approval	EMV	For use in hazardous locations
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RCM

[KC](#)


UL

[FM](#)

[CCC-Ex](#)


ATEX

For use in hazardous locations	Maritime application
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[Type Examination Certificate](#)


IECEX

[Miscellaneous](#)


ABS


BUREAU
VERITAS


DNV

Maritime application


LRS

[NK / Nippon Kaiji Kyokai](#)


RINA

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


KR
KOREAN REGISTER

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