



SIMATIC S7-1500, CM PTP RS422/485 HF communications module for serial connection RS-422 and RS-485, freeport, 3964(R), USS, Modbus RTU master, device, 250000 bit/s, 15-pin D-sub socket

General information	
Product type designation	CM PtP RS 422 / 485 HF
Product function	
- I&M data - Fast startup	Yes; I&M 0 Yes
Engineering with	
- 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; configurable with older TIA Portal versions as 6ES7541-1AB00-0AB0 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	
- Inputs - Outputs	8 byte; performance mode: 32 byte 0 byte; performance mode: 32 byte
Interface types	
RS 485	
- Transmission rate, max. - Cable length, max.	250 kbit/s 1 200 m
RS 422	
- Transmission rate, max. - Cable length, max. 4-wire full duplex connection 4-wire multipoint connection	115.2 kbit/s 1 200 m Yes No
Protocols	
Integrated protocols	
Freeport	
- Telegram length, max. - Bits per character - Number of stop bits - Parity	4 kbyte 7 or 8 1 or 2 bit 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		32	
Modbus RTU device			
— Address area		1 to 247, extended 1 to 65535	
Telegram buffer			
• Buffer memory for telegrams		8 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	16	27-24-22-08
	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
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[China RoHS](#)



[FM](#)

[CCC-Ex](#)



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

[Miscellaneous](#)



[CCC-Ex](#)



Maritime application



[NK / Nippon Kaiji Kyokai](#)



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

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

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