



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	
<ul style="list-style-type: none"> <li>I&amp;M data</li> <li>Fast startup</li> </ul>	Yes; I&M 0 Yes
Engineering with	
<ul style="list-style-type: none"> <li>STEP 7 TIA Portal configurable/integrated from version</li> <li>STEP 7 configurable/integrated from version</li> <li>PROFIBUS from GSD version/GSD revision</li> <li>PROFINET from GSD version/GSD revision</li> </ul>	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	
<ul style="list-style-type: none"> <li>Inputs</li> <li>Outputs</li> </ul>	8 byte; performance mode: 32 byte 0 byte; performance mode: 32 byte
Interface types	
RS 485	
<ul style="list-style-type: none"> <li>Transmission rate, max.</li> <li>Cable length, max.</li> </ul>	250 kbit/s 1 200 m
RS 422	
<ul style="list-style-type: none"> <li>Transmission rate, max.</li> <li>Cable length, max.</li> <li>4-wire full duplex connection</li> <li>4-wire multipoint connection</li> </ul>	115.2 kbit/s 1 200 m Yes No
Protocols	
Integrated protocols	
Freeport	
<ul style="list-style-type: none"> <li>Telegram length, max.</li> <li>Bits per character</li> <li>Number of stop bits</li> <li>Parity</li> </ul>	4 kbyte 7 or 8 1 or 2 bit None, even, odd, always 1, always 0, any

<b>3964 (R)</b>		
— 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	
<b>Modbus RTU master</b>		
— Address area	1 to 247, extended 1 to 65535	
— max. number of devices	32	
<b>Modbus RTU device</b>		
— Address area	1 to 247, extended 1 to 65535	
<b>Telegram buffer</b>		
• Buffer memory for telegrams	8 kbyte	
• Number of telegrams which can be buffered	255	
<b>Interrupts/diagnostics/status information</b>		
Diagnostics function	Yes	
<b>Alarms</b>		
• Diagnostic alarm	Yes	
• Hardware interrupt	No	
<b>Diagnoses</b>		
• Wire break	Yes	
<b>Diagnostics indication LED</b>		
• RUN LED	Yes; green LED	
• ERROR LED	Yes; red LED	
• Receive RxD	Yes; Yellow LED	
• Transmit TxD	Yes; Yellow LED	
<b>Potential separation</b>		
between backplane bus and interface	Yes	
<b>Isolation</b>		
Isolation tested with	707 V DC (type test)	
<b>Security</b>		
signed firmware update	Yes	
<b>Ambient conditions</b>		
<b>Ambient temperature during operation</b>		
• horizontal installation, min.	-30 °C	
• horizontal installation, max.	60 °C	
• vertical installation, min.	-30 °C	
• vertical installation, max.	40 °C	
<b>Altitude during operation relating to sea level</b>		
• Installation altitude above sea level, max.	5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual	
<b>Absolute humidity</b>		
• dew point, min.	-60 °C; suitable for dry room applications	
<b>Decentralized operation</b>		
to SIMATIC S7-300	Yes	
to SIMATIC S7-400	Yes	
to SIMATIC S7-1500	Yes	
to standard PROFINET controller	Yes	
<b>Dimensions</b>		
Width	35 mm	
Height	147 mm	
Depth	127 mm	
<b>Weights</b>		
Weight, approx.	0.22 kg	
<b>Classifications</b>		
	<b>Version</b>	<b>Classification</b>
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](#)



**For use in hazardous locations**

**Maritime application**

[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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