



Figure similar

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
Supply voltage	
Design of the power supply	system power supply
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	
— 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>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		
<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](#)

[China RoHS](#)



**General Product Approval**

EMV

For use in hazardous locations



[FM](#)

[CCC-Ex](#)



**For use in hazardous locations**

**Maritime application**

[Type Examination Certificate](#)

[Miscellaneous](#)



**Maritime application**



[NK / Nippon Kaiji Kyokai](#)



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



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