

SIMATIC S7-1500, CM PtP RS422/485 BA communications module for serial connection RS-422 and RS-485 freeport, 3964(R), USS, 19200 bit/s, 15-pin D-sub socket

General information	
Product type designation	CM PtP RS 422 / 485 BA
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; with older TIA Portal versions configurable as 6ES7540-1AB00-0AA0 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>	19.2 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>	19.2 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>	1 kbyte 7 or 8 1 or 2 bit None, even, odd, always 1, always 0, any
3964 (R)	
<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>	1 kbyte 7 or 8 1 or 2 bit None, even, odd, always 1, always 0, any
Telegram buffer	
<ul style="list-style-type: none"> <li>Buffer memory for telegrams</li> <li>Number of telegrams which can be buffered</li> </ul>	2 kbyte 255
Interrupts/diagnostics/status information	

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>product functions / security / header</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>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

	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**



[Manufacturer Declaration](#)

[Miscellaneous](#)



**EMV** For use in hazardous locations

[KC](#)



[FM](#)

[CCC-Ex](#)

[Miscellaneous](#)



For use in hazardous locations

Maritime application

[Type Examination Certificate](#)



Maritime application

[NK / Nippon Kaiji Kyokai](#)



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



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