

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	
- 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; 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	
- Inputs - Outputs	8 byte; performance mode: 32 byte 0 byte; performance mode: 32 byte
Interface types	
RS 485	
- Transmission rate, max. - Cable length, max.	19.2 kbit/s 1 200 m
RS 422	
- Transmission rate, max. - Cable length, max. 4-wire full duplex connection 4-wire multipoint connection	19.2 kbit/s 1 200 m Yes No
Protocols	
Integrated protocols	
Freeport	
- Telegram length, max. - Bits per character - Number of stop bits - Parity	1 kbyte 7 or 8 1 or 2 bit None, even, odd, always 1, always 0, any
3964 (R)	
- Telegram length, max. - Bits per character - Number of stop bits - Parity	1 kbyte 7 or 8 1 or 2 bit None, even, odd, always 1, always 0, any
Telegram buffer	
- Buffer memory for telegrams - Number of telegrams which can be buffered	2 kbyte 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)
product functions / security / header	
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
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
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ETIM	10	EC001423
ETIM	9	EC001423
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ETIM	7	EC001423

Approvals / Certificates

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SIMATIC S7-1500, CM PTP RS232 BA communications module for serial connection RS-232, freeport, 3964(R), USS, 19200 bit/s, 9-pin D-sub plug

General information	
Product type designation	CM PTP RS 232 BA
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; with older TIA Portal versions configurable as 6ES7540-1AD00-0AA0
• 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.	19.2 kbit/s
• Cable length, max.	15 m
• RS 232 auxiliary signals	RTS, CTS, DTR, DSR, RI, DCD
Protocols	
Integrated protocols	
Freeport	
— Telegram length, max.	1 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.	1 kbyte
— Bits per character	7 or 8
— Number of stop bits	1 or 2 bit
— Parity	None, even, odd, always 1, always 0, any
Telegram buffer	
• Buffer memory for telegrams	2 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																																				
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to SIMATIC S7-300	Yes																																				
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to SIMATIC S7-1500	Yes																																				
to standard PROFINET controller	Yes																																				
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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	
• 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; with older TIA Portal versions configurable as 6ES7541-1AB00-0AA0
• 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)	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	8 byte; performance mode: 32 byte
• Outputs	0 byte; performance mode: 32 byte
Interface types	
RS 485	
• Transmission rate, max.	250 kbit/s
• Cable length, max.	1 200 m
RS 422	
• Transmission rate, max.	115.2 kbit/s
• Cable length, max.	1 200 m
• 4-wire full duplex connection	Yes
• 4-wire multipoint connection	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		
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		
protocols / Modbus RTU device / header			
— 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)		
product functions / security / header			
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		
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
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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 - 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; with older TIA Portal versions configurable as 6ES7541-1AD00-0AA0 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)	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 - Outputs	8 byte; performance mode: 32 byte 0 byte; performance mode: 32 byte
Interface types	
RS 232	
- Transmission rate, max. - Cable length, max. - RS 232 auxiliary signals	115.2 kbit/s 15 m RTS, CTS, DTR, DSR, RI, DCD
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. - 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
Modbus RTU master	
- Address area - max. number of devices	1 to 247, extended 1 to 65535 1
protocols / Modbus RTU device / header	
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	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)
product functions / security / header	
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
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
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Approvals / Certificates	
General Product Approval	

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Maritime application					
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