SIEMENS

Data sheet   6ES7540-1AB00-0AA0

SIMATIC S7-1500, CM PTP RS422/485 BA Communication module for Serial connection RS422,RS485 Freeport, 3964 (R), USS, 19200 Kbit/s, 15-Pin D-sub socket

Figure similar

General information	
Product type designation	CM PtP RS 422 / 485 BA
Product function	
• I&M data	Yes; I&M 0
• Fast startup	Yes
Engineering with	
• STEP 7 TIA Portal configurable/integrated as of version	V12 / V12
• STEP 7 configurable/integrated as of version	V5.5 SP2 with GSD file
• PROFIBUS as of GSD version/GSD revision	- / -
• PROFINET as of GSD version/GSD revision	V2.3

Installation type/mounting	
Rail mounting	Yes; S7-1500 mounting rail

Supply voltage	
Type of supply voltage	system power supply

Input current	

Current consumption (rated value)	43 mA; From the backplane bus

Power

Power available from the backplane bus	0.65 W

Power loss

Power loss, typ.	0.6 W

Address area

Address space per module

• Inputs	8 byte

Interface types

RS 485

• Transmission rate, max.	19.2 kbit/s
• Cable length, max.	1 200 m

RS 422

• Transmission rate, max.	19.2 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.	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

Diagnostic messages

• 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)

Ambient conditions
Ambient temperature during operation
● horizontal installation, min.	0 °C
● horizontal installation, max.	60 °C
● vertical installation, min.	0 °C
● vertical installation, max.	40 °C

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
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