SIEMENS

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
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	
Occupied address area	
• 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	
Diagnostic functions	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
Fast Startup supported	Yes

Dimensions

Width	35 mm
Height	147 mm
Depth	127 mm

Weights

Weight, approx.	0.22 kg
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