

SIPLUS S7-1500 CM PTP RS422/485 -40 ... +70 DEGREE C WITH CONFORMAL COATING BASED ON 6ES7540-1AB00-0AA0 . COMMUNICATION MODULE FOR SERIAL CONNECTION RS422, RS485 FREEPORT, 3964(R), USS, 19200 KBIT/S, 15-PIN SUB-D FEMALE CONNECTOR

General information	
Product type designation	CM PtP RS422/485 BA
Product function	
• I&M data	Yes; I&M 0
Installation type/mounting	
Rail mounting possible	Yes; S7-1500 mounting rail
Input current	
Current consumption (rated value)	33 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
1. Interface	
Interface types	
• RS 485	Yes
• RS 422	Yes
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
• Receive RxD	Yes; yellow LED
• Transmit TxD	Yes; yellow LED
Potential separation	
between backplane bus and interface	Yes
Isolation	
Isolation tested with	500 V
Ambient conditions	
Ambient temperature during operation	
• horizontal installation, min.	-40 °C; = Tmin; Startup @ -25 °C
• horizontal installation, max.	70 °C
• vertical installation, min.	-40 °C; = Tmin; Startup @ -25 °C
• vertical installation, max.	40 °C
Extended ambient conditions	
• relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
Relative humidity	

— With condensation, tested in accordance with IEC 60068-2-38, max.

100 %; RH incl. condensation/frost (no commissioning under condensation conditions)

Resistance

— against biologically active substances / conformity with EN 60721-3-3

Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!

— against chemically active substances / conformity with EN 60721-3-3

Yes; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!

— against mechanically active substances / conformity with EN 60721-3-3

Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

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

last modified:

10/14/2016