



SIPLUS S7-1500 CM PTP RS422/485 -40 ... +70 DEGREES C WITH CONFORMASL COATING BASED ON 6ES7541-1AB00-0AB0 . COMMUNICATION MODUL FOR SERIAL CONNECTION RS422, RS485, FREEPORT, 3964(R), USS, MODBUS RTU MASTER, SLAVE, 115200 KBIT/S, 15-PIN SUB-D FEMALE CONNECTOR

General information	
Product function	
I&M data	Yes ; I&M 0
Installation type/mounting	
Type of fitting, rail mounting	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 losses	
Power loss, typ.	0.6 W
Address area	
Occupied address area	
Inputs	8 byte
Interfaces	
1st interface	
Interface types	
RS 422	Yes

<b>RS 485</b>	Yes
<b>Interface types</b>	
<b>RS 485</b>	
Transmission rate, max.	115.2 kbit/s
Cable length, max.	1200 m
<b>RS 422</b>	
Transmission rate, max.	115.2 kbit/s
Cable length, max.	1200 m
4-wire full duplex connection	Yes
4-wire multipoint connection	No
<b>Protocols</b>	
<b>Integrated protocols</b>	
<b>Freeport</b>	
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
<b>3964 (R)</b>	
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
<b>Modbus RTU master</b>	
Address area	1 to 247, extended 1 to 65535
Number of slaves, max.	32
<b>MODBUS RTU slave</b>	
Address area	1 to 247, extended 1 to 65535
<b>Frame buffer</b>	
Buffer memory for message frames	8 kbyte
Number of message frames which can be buffered	255
<b>Interrupts/diagnostics/status information</b>	
<b>Alarms</b>	
Diagnostic alarm	Yes
Hardware interrupt	No
<b>Diagnostic messages</b>	
Diagnostics	Yes
Wire break	Yes
<b>Diagnostics indication LED</b>	

<b>RUN LED</b>	Yes ; Green LED
<b>Receive RxD</b>	Yes ; yellow LED
<b>Send TxD</b>	Yes ; yellow LED
<b>Galvanic isolation</b>	
<b>between the backplane bus and interface</b>	Yes
<b>Ambient conditions</b>	
<b>Operating temperature</b>	
<b>horizontal installation, min.</b>	-40 °C
<b>horizontal installation, max.</b>	70 °C
<b>vertical installation, min.</b>	-40 °C
<b>vertical installation, max.</b>	40 °C
<b>Extended ambient conditions</b>	
<b>Relative to ambient temperature-atmospheric pressure-installation altitude</b>	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)
<b>Relative humidity</b>	
<b>With condensation, tested in accordance with IEC 60068 -2-38, maximum</b>	100 % ; RH incl. condensation/frost (no commissioning under condensation conditions)
<b>Resistance</b>	
<b>to biologically active substances/conformity with EN 60721-3-3</b>	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!
<b>to chemically active substances/conformity with EN 60721-3-3</b>	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!
<b>to mechanically active substances/conformity with EN 60721-3-3</b>	Yes ; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
<b>Decentralized operation</b>	
<b>to SIMATIC S7-300</b>	Yes
<b>to SIMATIC S7-400</b>	Yes
<b>to SIMATIC S7-1500</b>	Yes
<b>To standard PROFINET controller</b>	Yes
<b>Supports fast startup</b>	Yes
<b>Dimensions</b>	
<b>Width</b>	35 mm
<b>Height</b>	147 mm
<b>Depth</b>	127 mm
<b>Weights</b>	
<b>Weight, approx.</b>	0.22 kg
Status	May 9, 2014