Data sheet



SIPLUS S7-1500CM PtP RS422/485 -40...+70°C start up -25°C with conformal coating based on 6ES7541-1AB00-0AB0 . Communication module for Serial connection RS422 and RS485, Freeport, 3964 (R), USS, MODBUS RTU Master, Slave, 115200 Kbit/s, 15-Pin D-sub socket

Figure similar

General information	
Product type designation	CM PtP RS 422 / 485 HF
Product function	
● I&M data	Yes; I&M 0
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)	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	

Address space per module	
• Inputs	8 byte
Interface types	
RS 485	
Transmission rate, max.	115.2 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
Number of slaves, max.	32
MODBUS RTU slave	
— 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
Diagnostic messages	
Wire-break	Yes
Diagnostics indication LED	
• RUN LED	Yes; Green LED

Yes; Yellow LED Receive RxD Yes; Yellow LED Transmit TxD Potential separation between backplane bus and interface Yes Isolation Isolation tested with 500 V Ambient conditions Ambient temperature during operation -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C horizontal installation, min. 70 °C horizontal installation, max. -40 °C; = Tmin; Startup @ -25 °C • vertical installation, min. 40 °C • vertical installation, max. Altitude during operation relating to sea level 5 000 m Installation altitude above sea level, max. Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // • Ambient air temperature-barometric pressure-Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 altitude m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) Relative humidity • With condensation, tested in accordance with 100 %; RH incl. condensation/frost (no commissioning under IEC 60068-2-38, max. condensation conditions) Resistance Coolants and lubricants Yes; Incl. diesel and oil droplets in the air - Resistant to commercially available coolants and lubricants Use in stationary industrial systems - to biologically active substances according Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request to EN 60721-3-3 Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-— to chemically active substances according 52 (severity degree 3); * to EN 60721-3-3 Yes; Class 3S4 incl. sand, dust, * - to mechanically active substances according to EN 60721-3-3 Use on ships/at sea Yes; Class 6B2 mold and fungal spores (excluding fauna); Class - to biologically active substances according to EN 60721-3-6 6B3 on request Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-— to chemically active substances according 52 (severity degree 3); * to EN 60721-3-6 Yes; Class 6S3 incl. sand, dust; * - to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology Yes; Class 3 (excluding trichlorethylene) Against chemically active substances acc. to EN 60654-4

 Environmental conditions for process, 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas
measuring and control systems acc. to	concentrations up to the limits of EN 60721-3-3 class 3C4
ANSI/ISA-71.04	permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
 Note regarding classification of 	* The supplied plug covers must remain in place over the unused
environmental conditions acc. to EN 60721,	interfaces during operation!
EN 60654-4 and ANSI/ISA-71.04	
Conformal coating	
 Coatings for printed circuit board assemblies acc. to FN 61086 	Yes; Class 2 for high availability
• Protection against fouling acc. to EN 60664-3	Yes; Type 1 protection
Military testing according to MIL-I-46058C,	Yes; Discoloration of coating possible during service life
Amendment 7	res, biscoloration of coating possible during service inc
 Qualification and Performance of Electrical 	Yes; Conformal coating, Class A
Insulating Compound for Printed Board	
Assemblies according to IPC-CC-830A	
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	

0.22 kg

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Weight, approx.

last modified: