## Data sheet

SIPLUS S7-1500 CM PtP RS232 HF -40...+70°C start up -25°C with conformal coating based on 6ES7541-1AD00-0AB0 . Communication module for Serial connection RS232, Freeport, 3964 (R), USS, MODBUS RTU Master, Slave, 115200 Kbit/s, 9-pin D-sub connector



Figure similar

General information	
Product type designation	CM PtP RS 232 HF
Product function	
● I&M data	Yes; I&M 0
Fast startup	Yes
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)	35 mA; From the backplane bus
Power	
Power available from the backplane bus	0.65 W
Power loss	
Power loss, typ.	0.6 W

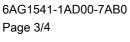
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## Address area Address space per module 8 byte Inputs Interface types RS 232 115.2 kbit/s • Transmission rate, max. • Cable length, max. 15 m RTS, CTS, DTR, DSR, RI, DCD • RS 232 auxiliary signals Protocols Integrated protocols Freeport - Telegram length, max. 4 kbyte 7 or 8 - Bits per character 1 or 2 bit - Number of stop bits — Parity None, even, odd, always 1, always 0, any 3964 (R) 4 kbyte — Telegram length, max. 7 or 8 - Bits per character 1 or 2 bit - Number of stop bits None, even, odd, always 1, always 0, any - Parity Modbus RTU master 1 to 247, extended 1 to 65535 - Address area 1 - Number of slaves, max. MODBUS RTU slave 1 to 247, extended 1 to 65535 - Address area Telegram buffer 8 kbyte • Buffer memory for telegrams 255 • Number of telegrams which can be buffered Interrupts/diagnostics/status information Diagnostics function Yes Alarms Yes • Diagnostic alarm Hardware interrupt No Diagnoses Yes Wire-break Diagnostics indication LED • RUN LED Yes Yes; Yellow LED Receive RxD Yes; Yellow LED Transmit TxD

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



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<ul> <li>Environmental conditions for process,</li> </ul>	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	
<ul> <li>Note regarding classification of</li> </ul>	* 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	
<ul> <li>Coatings for printed circuit board assemblies acc. to EN 61086</li> </ul>	Yes; Class 2 for high reliability
<ul> <li>Protection against fouling acc. to EN 60664-3</li> </ul>	Yes; Type 1 protection
<ul> <li>Military testing according to MIL-I-46058C,</li> </ul>	Yes; Discoloration of coating possible during service life
Amendment 7	
<ul> <li>Qualification and Performance of Electrical</li> </ul>	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
Dimensions	
Width	35 mm
Height	147 mm
Depth	127 mm
Weights	
Weight, approx.	0.22 kg
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