## **SIEMENS**

## **Data sheet**

6AG1541-1AB00-7AB0



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	
<ul> <li>I&amp;M data</li> </ul>	Yes; I&M 0
Fast startup	Yes
Engineering with	
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	see entry ID: 109746275
Installation type/mounting	
Rail mounting	Yes; S7-1500 mounting rail
Supply voltage	
Design of the power supply	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	
<ul><li>Inputs</li></ul>	8 byte
Interface types	
RS 485	
<ul> <li>Transmission rate, max.</li> </ul>	115.2 kbit/s
Cable length, max.	1 200 m
RS 422	
<ul> <li>Transmission rate, max.</li> </ul>	115.2 kbit/s
<ul> <li>Cable length, max.</li> </ul>	1 200 m
<ul> <li>4-wire full duplex connection</li> </ul>	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)	

- Testglanterlagh, frax.  - Bits per character - Number of stop bits - Parity None, even, odd, always 1, always 0, any Michous RTU master - Address area - Number of slaves, max. 32  - NoDBUS RTU slave - Address area - Number of slaves, max. 32  - Relegram buffer - Euther memory for flegyams - Number of legyams with can be buffered - Euther memory for flegyams - Number of legyams with can be buffered - Euther memory for flegyams - Number of legyams with can be buffered - Euther memory for flegyams - Number of legyams with can be buffered - Euther memory for flegyams - Number of legyams with can be buffered - Euther memory for flegyams - Number of legyams with can be buffered - Euther memory for flegyams - Number of legyams with can be buffered - Euther memory for flegyams - Number of legyams with can be buffered - Euther memory for flegyams - Number of legyams - Number of le	Tologram longth, may	4 khyto
- Number of slop bits - Parity Modous RTU master - Address area - Number of slaves, max.  22 MODSUS RTU slave - Address area 1 to 247, extended 1 to 65535  Telegram buffer - Number of telegrams which can be buffered - Standard s	— Telegram length, max.	4 kbyte
Parity Modbus RTU master Address area Audress area Number of siaves, max Address area Number of telegrams -		
Modbus RTU master  Address area Number of slaves, max.  MODBUS RTU slave Address area 1 to 247, extended 1 to 68535  MODBUS RTU slave Address area 1 to 247, extended 1 to 68535  Telegram buffer Buffer memory for telegrams Buffer memory for telegrams Number of telegrams which can be buffered Uniformitized sponsitizes/status information  Diagnostics function  Personal substancial substances according to EN 60721-3-3 To Homizontal installation, max Address area To Entologically active substances according to EN 60721-3-3 To mechanically active substances ac	•	
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MODBUS RTU slave 1 to 247, extended 1 to 65535  Telegram buffer 8 skbyte 8 skbyte 8  **Unumber of telegrams which can be buffered 255  Interrupts/diagnostics/status information   255  Diagnostics diamr		
- Address area  1 to 247, extended 1 to 65535  Telegram buffer  • Buffer memory for telegrams which can be buffered  Number of telegrams which can be buffered  Interrupts' diagnostics/status information  Diagnostics function  Pes    Diagnostic silent   Part   Part   Part   Part   Part	,	32
Telegram buffer  Buffer memory for telegrams Number of felegrams which can be buffered Self-status information Diagnostic status information Diagnostic status information Diagnostic status information Diagnostic status information Pyes Plagnostic status information Diagnostic status information Pyes Plagnostic status information Pyes Plagnostic status information Pyes Plagnostic status information Pyes Potential separation Potential separation Detween backplane bus and interface Pyes Potential separation Detween backplane bus and interface Pyes Potential separation Detween backplane bus and interface Pyes Potential separation Potential installation, min. Poteropatial installation, min. Potential installation,		4 to 947, extended 4 to 95595
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Diagnostic startuction		•
Diagnostics function  Alarms  Diagnostic slarm Diagnostic slarm Personant Standard interrupt No Diagnoses Wire-break Poligopostics indication LED RUN LED ROWN-LED Potential separation Personant Txb Personant Txb Personant Txb Potential separation Detween backplane bus and interface Personant conditions Ambient temperature during operation Portizontal installation, min. Portizonal ins		255
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Plagnostic alarm     No     Hardware interrupt     No     Diagnoses     Wire-break     Yes     Diagnoses     Wire-break     PROBLED     RECEIVE RAD     RECEIVE RAD     Potential soparation     Detween backplane bus and interface     Potential soparation     Potential isolation with Solo V  Ambient temperature during operation     Portical installation, min.     Potrical		Yes
Hardware interrupt  Diagnoses		
Wire-break	-	
Wire-break Diagnostics indication LED RIV LED ROW LED ROW LED ROW LED ROW LED Potential separation  Potential separation  Between backplane bus and interface Solation Isolation tested with Solation Solation tested with	·	No
Diagnostics indication LED  Receive RXD  Receive RXD  Transmit TXD  Potential separation  Between backplane bus and interface  Isolation  Isolation tested with  Ambient conditions  Ambient temperature during operation  Porticulal installation, min. Porticular installation altitude above sea level. Porticular installation. Po	9	
Receive RxD Receiv		Yes
Potential separation between backplane bus and interface    Solution	•	
• Transmit TxD  Potential separation  between backplane bus and interface    Solution		-
Detween backplane bus and interface Solation    Solation tested with   500 V		
between backplane bus and interface    solation		Yes; Yellow LED
Isolation   Isol	Potential separation	
Isolation tested with  Ambient conditions  Ambient temperature during operation  • horizontal installation, min. • horizontal installation, max. • vertical installation, max.  • vertical installation, min. • vertical installation, max.  • vertical installation, max.  • vertical installation, max.  • were during storage/transportation  • min. • max.  Ambient temperature during storage/transportation  • min. • max.  Altitude during operation relating to sea level • Installation altitude above sea level, max. • Ambient air temperature-barometric pressure- altitude  • Installation altitude above sea level, max. • Ambient air temperature-barometric pressure- altitude  • With condensation, tested in accordance with IEC 60068-2-38, max.  Resistance  Coolants and lubricants  — Resistant to commercially available coolants and lubricants  — Resistant to commercially available coolants and lubricants  — to biologically active substances according to EN 60721-3-3  — to mechanically active substances according to EN 60721-3-3  Use on ships/at sea  — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to	between backplane bus and interface	Yes
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<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, max.</li> <li>vertical installation, max.</li> <li>vertical installation, max.</li> <li>vertical installation, max.</li> <li>40 °C; = Tmin; Startup @ -25 °C</li> <li>40 °C</li> <li>Ambient temperature during storage/transportation</li> <li>min.</li> <li>max.</li> <li>Altitude during operation relating to sea level</li> <li>Installation altitude above sea level, max.</li> <li>Ambient air temperature-barometric pressureallitude</li> <li>Installation altitude above sea level, max.</li> <li>Ambient air temperature-barometric pressureallitude</li> <li>With condensation, tested in accordance with IEC 60068-2-236, max.</li> <li>Relative humidity</li> <li>With condensation, tested in accordance with IEC 60068-2-236, max.</li> <li>Resistance</li> <li>Coolants and lubricants</li> <li>Resistance</li> <li>Coolants and lubricants</li> <li>Los in stationary industrial systems</li> <li>to chemically active substances according to EN 60721-3-3</li> <li>to mechanically active substances according to EN 60721-3-3</li> <li>Use on ships/at sea</li> <li>to biologically active substances according to EN 60721-3-6</li> <li>to chemically active substances according to EN 60721-3-6</li> <li>to biologically active substances according to EN 60721-3-6</li> <li>to chemically active substances according to EN 60721-3-6</li> <li>to chemicall</li></ul>	Ambient conditions	
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vertical installation, max.     Ambient temperature during storage/transportation     • min.     • max.     Allittude during operation relating to sea level     • Installation altitude above sea level, max.     • Ambient air temperature-barometric pressurealtitude     altitude wiring operation relating to sea level     • Installation altitude above sea level, max.     • Ambient air temperature-barometric pressurealtitude     altitude wiring operation relating to sea level     • Installation altitude above sea level, max.     • Ambient air temperature-barometric pressurealtitude     — With condensation, tested in accordance with IEC 60088-2-36, max.  Resistance  Coolants and lubricants  — Resistant to commercially available coolants and lubricants  — Resistant to commercially available coolants and lubricants  — Los biologically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3  — to mechanically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances accord	<ul> <li>horizontal installation, max.</li> </ul>	
vertical installation, max.     Ambient temperature during storage/transportation     • min.     • max.     Allittude during operation relating to sea level     • Installation altitude above sea level, max.     • Ambient air temperature-barometric pressurealtitude     altitude wiring operation relating to sea level     • Installation altitude above sea level, max.     • Ambient air temperature-barometric pressurealtitude     altitude wiring operation relating to sea level     • Installation altitude above sea level, max.     • Ambient air temperature-barometric pressurealtitude     — With condensation, tested in accordance with IEC 60088-2-36, max.  Resistance  Coolants and lubricants  — Resistant to commercially available coolants and lubricants  — Resistant to commercially available coolants and lubricants  — Los biologically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3  — to mechanically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances accord	<ul> <li>vertical installation, min.</li> </ul>	-40 °C; = Tmin; Startup @ -25 °C
<ul> <li>min.</li> <li>max.</li> <li>Max.</li> <li>Altitude during operation relating to sea level</li> <li>Installation altitude above sea level, max.</li> <li>Ambient air temperature-barometric pressurealtitude</li> <li>With condensation, tested in accordance with IEC 60068-2-38, max.</li> <li>Relative humidity</li> <li>With condensation, tested in accordance with IEC 60068-2-38, max.</li> <li>Resistance</li> <li>Coolants and lubricants</li> <li>Resistant to commercially available coolants and lubricants</li> <li>Use in stationary industrial systems</li> <li>to biologically active substances according to EN 60721-3-3</li> <li>to the micially active substances according to EN 60721-3-3</li> <li>Use on ships/at sea</li> <li>to biologically active substances according to EN 60721-3-6</li> <li>to the micially active substances according to EN 60721-3-6</li> <li>to the micially active substances according to EN 60721-3-6</li> <li>to mechanically active substances according to EN 60721-3-6</li> <li>t</li></ul>	<ul> <li>vertical installation, max.</li> </ul>	40 °C
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<ul> <li>max.</li> <li>Altitude during operation relating to sea level</li> <li>Installation altitude above sea level, max.</li> <li>Ambient air temperature-barometric pressurealititude</li> <li>Mithide the interperature-barometric pressurealititude</li> <li>Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)</li> <li>With condensation, tested in accordance with IEC 60068-2-38, max.</li> <li>Resistance</li> <li>Coolants and lubricants</li> <li>— Resistant to commercially available coolants and lubricants</li> <li>Use in stationary industrial systems</li> <li>— to biologically active substances according to EN 60721-3-3</li> <li>— to chemically active substances according to EN 60721-3-3</li> <li>— to mechanically active substances according to EN 60721-3-3</li> <li>Use on ships/at sea</li> <li>— to biologically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances accordi</li></ul>		-40 °C
<ul> <li>Installation altitude above sea level, max.</li> <li>Ambient air temperature-barometric pressurealtitude</li> <li>Ambient air temperature-barometric pressurealtitude</li> <li>Trmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)</li> <li>With condensation, tested in accordance with IEC 60068-2-38, max.</li> <li>Resistance</li> <li>Coolants and lubricants</li> <li>Resistant to commercially available coolants and lubricants</li> <li>Use in stationary industrial systems</li> <li>— to biologically active substances according to EN 60721-3-3</li> <li>— to mechanically active substances according to EN 60721-3-3</li> <li>Use on ships/at sea</li> <li>— to biologically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to E</li></ul>		
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	— to mechanically active substances according to	

Usage in industrial process technology	
<ul> <li>Against chemically active substances acc. to EN 60654-4</li> </ul>	Yes; Class 3 (excluding trichlorethylene)
<ul> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04</li> </ul>	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
<ul> <li>Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul>	* The supplied plug covers must remain in place over the unused interfaces during operation!
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, Amendment 7</li> </ul>	Yes; Discoloration of coating possible during service life
<ul> <li>Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A</li> </ul>	Yes; Conformal coating, Class A
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

11/3/2021

last modified: