

SIMATIC S7-1500

Installation Instructions

6ES7540-1AB01-0AA0

S7-1500 RS422/485 Communication Module

PRODUCT TYPE	SERIAL INTERFACES	CONNECTOR	MAXIMUM TRANSMISSION RATE
CM PtP RS422/485 BA	RS422 and RS485	15-pin D-sub socket	19.2 kbit/s

01 PRODUCT VERIFICATION

Article number	6ES7540-1AB01-0AA0
Product	S7-1500 RS422/485 Communication Module
Family	SIMATIC S7-1500
Product type	CM PtP RS422/485 BA
Serial interfaces	RS422 and RS485
Connector	15-pin D-sub socket
Maximum transmission rate	19.2 kbit/s
Maximum cable length	1200 m

02 BEFORE INSTALLATION

- Switch off the S7-1500 or ET 200MP station and isolate every connected serial device before wiring.
- Mount the module on the S7-1500 rail and seat the U-connector and separately ordered front connector correctly.

03

OFFICIAL INSTALLATION DRAWING

The selected Siemens source page is retained as the installation and wiring reference. Use the current controlled manual for final work.

Connecting

3

3.1 RS422/485 (X27) interface of the communication module

The RS422/485 (X27) interface is a differential voltage interface and is used for serial data transmission.

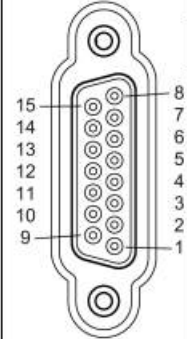
The inputs and outputs are not isolated from each other. The inputs and outputs are electrically isolated from the backplane bus.

Terminal assignment

Plug the connecting cable into the 15-pin D-sub socket behind the front flap of the communications module.

The table below shows the pin assignment of the 15-pin D-sub socket.

Table 3- 1 Pin assignment for the 15-pin D-sub socket of the integrated interface of the communications module

RS422/485 socket	Pin	Designation	Input/output	Meaning
	2	T (A)-	Output	Send data (four-wire mode)
	4	R (A)-	Input	Receive data (four-wire mode)
		T(A)/R(A)	Input/output	Receive/send data (two-wire mode)
	8	GND	—	Shared ground reference (ground)
	9	T (B)+	Output	Send data (four-wire mode)
	11	R (B)+	Input	Receive data (four-wire mode)
		T(B)/R(B)	Input/output	Receive/send data (two-wire mode)
	1			
	3			
	5			
	7			
Front view				

04 INSTALLATION SEQUENCE

01

Switch off the S7-1500 or ET 200MP station and isolate every connected serial device before wiring.

02

Mount the module on the S7-1500 rail and seat the U-connector and separately ordered front connector correctly.

03

Wire the 15-pin D-sub connector for the selected RS422 or RS485 mode, including shielding and termination.

04

Configure baud rate, frame format, protocol and point-to-point instructions before enabling data exchange.

05 OFFICIAL DOCUMENTATION

CM PtP RS422/485 BA and HF Equipment Manual (A5E03777484-AB)

[Open current Siemens manual](#)

[Open Siemens exact product record](#)

06 SUPPORT CONTACT

AMIKON PRODUCT SUPPORT

Amikon Limited

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM