

FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Siemens 6ES7241-1AH32-0XB0

CM 1241 RS232 Communication Module

Table A-256: RS232 connector (male)

Pin	Description	Connector (male)	Pin	Description
1 DCD	Data carrier detect: Input	1	6 DSR	Data set ready: Input
2 RxD	Received data from DCE: Input	2	7 RTS	Request to send: Output
3 TxD	Transmitted data to DCE: Output	3	8 CTS	Clear to send: Input
4 DTR	Data terminal ready: Output	4	9 RI	Ring indicator (not used)
5 GND	Logic ground	5	SHELL	Chassis ground

PRODUCT	6ES7241-1AH32-0XB0
FAMILY	SIMATIC S7-1200
FUNCTION	CM 1241 RS232 Communication Module
STATUS	Verify exact configuration

Prepared by Amikon Limited from Siemens S7-1200 A5E02486680-AO, 05/2021; RS232 pin extract p1354. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01 CONFIRM THE ORDERED CONFIGURATION

Serial interface	RS232, full duplex
Connector	Male 9-pin D-sub
Supported baud rates	300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 76800, 115200 bit/s
Parity options	None, even, odd, mark or space
Stop bits	1 or 2; default 1
Flow control	Hardware or software
Configurable wait time	0 to 65535 ms

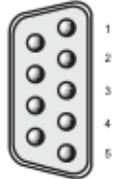
02 MOUNTING AND CONNECTION

- Isolate power and place the connected equipment in an approved maintenance state before fitting the module.
- Install the CM 1241 locally on the left of the compatible S7-1200 CPU.
- Check RxD pin 2, TxD pin 3, logic ground pin 5 and the separate chassis shell connection.
- Verify every required handshake signal against the remote-device documentation and use a shielded cable within 10 m.
- Configure baud rate, parity, stop bits, flow control and the required receive message boundaries.

03

OFFICIAL INSTALLATION REFERENCE

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5 GND	Logic ground		SHELL	Chassis ground

Official manufacturer reference reproduced from Siemens S7-1200 A5E02486680-AO, 05/2021; RS232 pin extract p1354. Use the current source document and all referenced drawings and notes for installation.

04

CABLE ROUTING AND CONNECTION

- Install the CM 1241 locally on the left of the compatible S7-1200 CPU.
- Check RxD pin 2, TxD pin 3, logic ground pin 5 and the separate chassis shell connection.
- Verify every required handshake signal against the remote-device documentation and use a shielded cable within 10 m.
- Configure baud rate, parity, stop bits, flow control and the required receive message boundaries.
- Test complete message exchanges, invalid or missing data and the recovery behavior before production use.

05

INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify wiring, grounding, enclosure, and applicable hazardous-area requirements.
- Validate complete serial telegrams and the configured handling of missing or invalid device data.
- Record the installed order number and baseline operating condition.

06

CONTROLLED DOCUMENTS

Official source	Siemens S7-1200 A5E02486680-AO, 05/2021; RS232 pin extract p1354
Product record	6ES7241-1AH32-0XB0
Manufacturer	Siemens
Support	INFO@AMIKON.CN