AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7241-1CH30-1XB0

RS485 Serial Communication Board



INTERFACE	OPERATION	CONNECTOR	CPU FIRMWARE
RS485	**Two-wire half-duplex**	**Terminal block**	**V2.0 or later**

Siemens 6ES7241-1CH30-1XB0 is the SIMATIC S7-1200 CB 1241 RS485 communication board. It uses a terminal-block connection for two-wire half-duplex serial communication and supports Freeport and the documented Modbus RTU functions.

01 VERIFIED TECHNICAL INFORMATION

Serial electrical interface	RS485, two-wire half-duplex
Connection hardware	Terminal block
Minimum CPU firmware	V2.0
Selectable baud rates	300 to 115200 baud; discrete manufacturer-listed settings
Data bits per character	7 or 8
Stop bits	1 (default) or 2
Parity selections	None, even, odd, mark or space

Manufacturer evidence: Data sheet 6ES7241-1CH30-1XB0; exact-model manual section and manufacturer data sheet.

02 TECHNICAL INFORMATION CONTINUED

Flow control	Not supported
Shielded cable length	1000 m maximum; follow network design requirements
Protocol functions	Freeport; Modbus RTU master or slave; ASCII/USS library functions
Freeport telegram length	1 kbyte maximum
Degree of protection	IP20
Operating ambient temperature	Horizontal: -20 to +60 C; vertical: -20 to +50 C
Power dissipation	1.5 W
SM bus current	50 mA maximum

03 SOURCE AND CONFIGURATION CHECKS

The compact board provides an additional serial path without being a separate CM enclosure. Baud rate, character format, network termination and the CPU firmware requirement define its integration, while diagnostic functions support the configured communication connection.

Packed dimensions and supplied-unit origin must be checked against the actual delivery. No verified gross shipping weight is inferred from module net mass.

Siemens manufacturer reference (scope stated in source)

AMIKON PRODUCT SUPPORT

+86-18020776786 INFO@AMIKON.CN

AMIKONG.COM