

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7138-4DF01-0AB0

ET 200S Serial Interface



CHANNELS	DRIVERS	MAXIMUM RATE	SUPPLY
1 serial	ASCII / 3964(R)	115.2 kbit/s	24 V DC

Siemens 6ES7138-4DF01-0AB0 is the ET 200S 1SI serial interface module for asynchronous point-to-point communication. One channel can be configured for RS232C, RS422 or RS485, with ASCII and 3964(R) driver options subject to the selected electrical interface.

01

VERIFIED TECHNICAL INFORMATION

Serial channel	1 configurable interface: RS232C, RS422 or RS485
Protocol support	ASCII on all three interfaces; 3964(R) on RS232C and RS422 only
Duplex operation	ASCII full duplex on RS232C/RS422; RS485 half duplex only; 3964(R) half duplex
Baud-rate range	Discrete settings from 110 to 115,200 bit/s
Maximum message length	224 bytes for ASCII and 3964(R)
Character format	7 or 8 data bits; 1 or 2 stop bits; none, odd, even or any parity
ASCII receive delimiter	Character-delay expiration, one/two end characters or fixed message length

Manufacturer evidence: SIMATIC ET 200S Serial interface modules; exact-model manual section and manufacturer data sheet.

02 TECHNICAL INFORMATION CONTINUED

Flow control	RTS/CTS on RS232C; XON/XOFF on RS232C or RS422; no flow control on RS485
Process-data options	4, 8 or 32 bytes; 32-byte mode requires IM151-1 Standard from 6ES7151-1AA04-0AB0 or High Feature from 6ES7151-1BA01-0AB0, otherwise 8-byte limit
Cable limits	RS232C up to 15 m; RS422/RS485 up to 1200 m subject to the specified cable and baud-rate conditions, not 1200 m at every rate
Rated electronics supply	24 V DC; reverse-polarity protection
Supply current	Maximum 120 mA from L+ and 10 mA from the 3.3 V backplane bus
Power dissipation	Typical 1.2 W
Interface isolation	RS232C and RS422/RS485 signals isolated from the module's internal power supply
Diagnostics	Green TX/RX and red SF LEDs; function-block STATUS and PROFIBUS slave diagnostics

03 SOURCE AND CONFIGURATION CHECKS

The module exchanges messages with the controller through configured process data and communication function blocks. Its selectable process-data sizes are separate from the 224-byte maximum message length. Interface choice determines available duplex and flow-control functions, while 32-byte process-data operation depends on the installed IM 151 version.

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 original documentation and product reference

Siemens Data sheet 6ES7138-4DF01-0AB0; 03/10/2017; companion manual, source pp. 1-3

AMIKON PRODUCT SUPPORT

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