



## SER-485 Lite

1 port RS232 to RS422/485 Converter



### KEY FEATURES

- Converts RS232 <=> RS422/485
- RS485 bitrate adaptive ART (Automatic Receive Transmit control)
- LED indicator for Power & signals
- Internal Termination and BIAS
- RS422 with Hardware handshake
- Software Configuration menu for parameters, quick configuration for standard modes
- DIN-Rail mountable

### Overview

The SER-485 Lite is a cost effective adapter to convert bidirectional signals from RS232 to RS422 and RS485. In RS485 mode the data direction is managed by the bitrate adaptive function of ART (Automatic Receive Transmit control). ART analyzes the data in real-time, and adapts to the setup of the RS232 port.

With SER-485 Lite standard operation modes are selected by simple DIP switches. The full versatility is controlled by a built-in software configuration menu, which is accessed via terminal programs. The behaviour of RS422 and various options of RS485 are selected by an easy-to-use menu structure.

The internal termination and BIAS (polarization) resistors allow to prepare the RS485 signals for connection to customers networks.



### Specifications

RS232	DTE/DCE selectable, optional power over special pin
RS485	Automatic Receive Transmit control (ART) Baudrate adaption in real time
Line adjust	Built-in Termination and Polarization (BIAS) resistors
Operation Modes	RS422 with hardware handshake; RS485 by ART, RTS or DTR RS485 Half- and Full-Duplex; Two basic modes selected by DIP switch
Cable length	Max. 1200 m
Speed	Max. 1Mbps; Max. 250kbps with ART
Connectors	RS232 1x DB9 female RS485/RS422 1 x DB9 male plus Terminal Block (5 c-clamps)

#### Software Configuration

Configuration Menu	Various parameters of signal conversion are defined via an easy-to-use menu interface, access is via standard terminal programs (Hyperterminal, miniterm, ...)
Operation Modes	RS422; RS485 by RTS; RS485 by DTR; RS485 by ART (Automatic Receive Transmit control)
ART options RS485	Transmit/Receive change as quick, average, standard
Wiring	RS422 (4-wire) RS485 Full Duplex (4-wire) RS485 Half Duplex (2-wire) with Echo RS485 Half Duplex (2-wire) no Echo

## Specifications

Power and Environment	
Power requirements	5V DC, 400mW
Power supply Adapter	5V, 500mA
Dimensions	56 x 73 x 23 mm <sup>3</sup> (W x L x H)
Operating Temp	0°C - 60°C
Storage Temp	-20°C - 85°C
Case	SECC sheet metal (1mm)
Weight	100 g
Approvals	
EMC	FCC Class A, CE Class A
Environment	RoHS

## Ordering Information

Art. No	416
Product Name	SER-485 Lite
Packing List	SER-485 Lite Converter, Power Supply, English Documentation
Optional Accessory	DIN-Rail mounting clamp

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