Model Information

■ Features

- Converts RS232 <=> RS422/485
- RS485 bitrate adaptive ART (Automatic Receive Transmit control)
- Full Software Configuration, NO Jumpers. Quick configuration for standard modes
- Flexible power 9-30V DC
- LED indicator for Power and signals
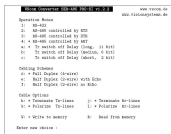- Internal Termination by software or DIP
- DIN-Rail mountable

Contact Online...

VScom SER-485
(SER-485 PRO, SER-485 Lite)

Quick Link: | **Features** | **More Pictures** | **Overview** | **Application** | **Hardware Specifications** | **Software Configuration** | **Power and Environment** | **Ordering Information** | **Options** | **Packaging** |

■ More Pictures

Click on the thumbnails for the large picture ...

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■ Overview

The SER-485 is an adapter to convert bidirectional signals from RS232 to RS422 and RS485 in industrial environments. 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.
All options and parameters of SER-485 operation are configured by software, controlled via an easy-to-use menu structure. This menu is accessed via standard terminal programs. The SER-485 is a NO Jumper type of device.
With SER-485 often used operation modes are selected by simple DIP switches. The full versatility is controlled by the built-in software configuration menu. The behaviour of RS422 and various options of RS485 are selected by an easy-to-use menu structure.
The internal termination resistors allow to prepare the RS485 signals for connection to customers networks. These internal resistors are controlled by the configuration. There is no need to open the case for configuration.
The VScom SER-485 replaces the Converters VScom SER-485 Lite and SER-485 PRO.

■ Application

■ Building automation system	■ Automatic warehouse control system
■ SCADA system	■ Industrial / Factory / Laboratory automation
■ RS232 line length extension	■ Wafer fabrication system

■ Hardware Specifications

RS232	DCE DSub9 femal
RS485	Automatic Receive Transmit control (ART) Baudrate adaption in real time

Line adjust	Built-in Termination resistors
Operation Modes	RS422 RS485 by ART or RTS RS485 Half- and Full-Duplex Ten basic modes selected by DIP switch
Cablelength	max. 1200 m
Speed	max. 1Mbps max. 250kbps with ART
Connectors	RS232 1x DSub9 female RS485/RS422 1 x DSub9 male optional terminal block

■ 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 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) no Echo
Termination	RS422/485 line termination 120Ω, controlled via operation mode
RS485 BIAS	not required

■ Power and Environment

Power requirements	9-30V DC, 500mW
Dimension	115×73×25 mm³ (W×L×H)
Operating Temp	0°C - 60°C
Storage Temp	-20°C - 85°C
Case	SECC sheet metal (1mm)
Weight	150 g

■ Ordering Information

414	VScom SER-485
415	VScom SER-485 ISO

■ Options

663	6-pin Terminal block adapter to DB9 female
6031	Power supply adapter 12V DC, 1A
6692	DK-NCP DIN-Rail mounting kit
6693	WK-NCP Wallmount kit

■ Packaging

Packing list   VScom Converter SER-485
English Documentation

VScom SER-485

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  VScom Converter SER-485 PRO-SI v1.2.2              www.vscom.de
                                               www.visionsystems.de

  Operation Modes
   1:    RS-422
   2:    RS-485 controlled by RTS
   3:    RS-485 controlled by DTR
   4: *  RS-485 controlled by ART
   a: *   Tx switch off Delay (long,  11 bit)
   b:     Tx switch off Delay (medium, 6 bit)
   c:     Tx switch off Delay (short,  2 bit)


  Cabling Schemes
   d: * Full Duplex (4-wire)
   e:   Half Duplex (2-wire) with Echo
   f:   Half Duplex (2-wire) no Echo


  Cable Options
   h: * Terminate Tx-lines        j: * Terminate Rx-lines
   k: * Polarize   Tx-lines       l: * Polarize   Rx-lines


   W: + Write to memory           R:   Read from memory


  Enter new choice :
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