

Model Information



■ Features

- Converts RS232 <=> RS422/485
- RS422/485 optical isolated
- 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

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VScom SER-485 ISO

(SER-485 PRO-SI)

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■ More Pictures



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■ Overview

The SER-485 ISO 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.

The SER-485 ISO is a galvanical isolated variant of the SER-485 ISO. Further the device is Surge Protected up to 4kV.

All options and parameters of SER-485 ISO operation are configured by software, controlled via an easy-to-use menu structure. This menu is accessed via standard terminal programs. The SER-485 ISO is a NO Jumper type of device. With SER-485 ISO 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 and BIAS (polarization) resistors allow to prepare the RS485 signals for connection to customers networks. These internal resistors are activated by relays, controlled by the configuration menu. There is no need to open the case for configuration.

The VScom SER-485 ISO replaces the Converter VScom SER-485 PRO-SI.

■ Application

- Building automation system
- SCADA system
- RS232 line length extension
- RS232 line optical isolation
- Automatic warehouse control system
- Industrial / Factory / Laboratory automation
- 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

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■ 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

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■ Power and Environment

Power requirements	9-30V DC, 600mW
Dimension	115×73×25 mm ³ (W×L×H)
Operating Temp	0°C - 60°C
Storage Temp	-20°C - 85°C
Case	SECC sheet metal (1mm)
Weight	160 g

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■ Ordering Information

415	VScom SER-485 ISO
414	VScom SER-485

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■ Options

663	6-pin Terminal block adapter to DB9 female
6031	Power supply adapter 12V DC, 1A DK-NCP

6692

DIN-Rail mounting kit

6693

WK-NCP
Wallmount kit

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■ Packaging

Packing list

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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 :