3onedata
Reliable Connections



SW485C

Passive Pocket RS-232 to RS-485/422 Interface Converter

- Support bidirectional data conversion between 1 RS-232 serial port and 1 RS-485/422 serial port
- Unique port-power technology, no need for external power supply
- Low power consumption, equal to that of normal light-emitting diodes in static operation, can be truly called passive
- Automatic serial port signal rate detection, zero-delay automatic forwarding
- Serial port provides 600W surge protection and 15kV electrostatic protection
- Support -40~80℃ wide operating temperature range

Introduction

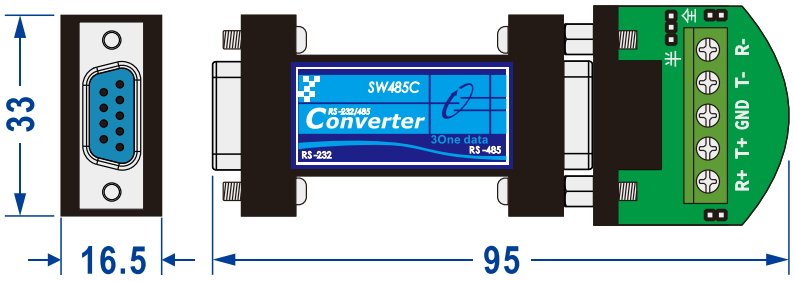
SW485C is an industrial-grade pocket RS-232 to RS-485/422 interface converter, which can implement bidirectional data conversion between serial port RS-232 and RS-485, RS-422, and need no external power supply. It provides a RS-232 serial port and a RS-485/422 serial port. The transmission modes of RS-485 and RS-422 are selected through jumper. Its serial ports are equipped with 600W surge protection and 15kV electrostatic protection, which can effectively prevent device from being damaged.

The RS-232 port of SW485C adopts hole-type DB9 interface, which could connect to PC directly and obtain power from PC serial port via TXD, RTS and DTR signal lines. Regardless of whether the signal is high or low, SW485C can obtain enough power from those data/handshake signals.

The design of SW485C complies with the requirements of industrial standard and has features like compact size, long transmission distance, high speed and stable performance, etc. It is a data interface converter with great performance and cost-effectiveness which could be wildly used in electric power system, industrial automation control and IC card charging system.

Dimension

Unit:mm



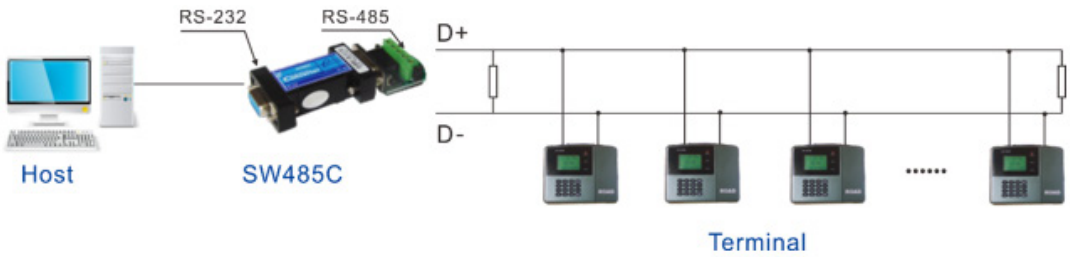
Specification

Serial Port	Standard: EIA RS-232C, RS-485, RS-422 Serial port quantity: 1 RS-232 serial port, 1 RS-485/422 serial port (RS-485 and RS-422 can switch via jumper) RS-232 signal: TXD, RXD, GND RS-485 signal: D+, D-, GND RS-422 signal: T+, T-, R+, R-, GND Baud rate: 0~115200bps

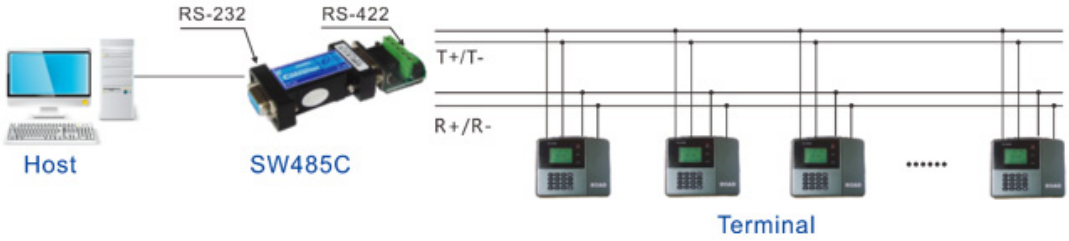
	Interface type: RS-232 serial port, adopts DB9, Female; RS-485/422 serial port, adopt 5-pin 5.08mm pitch terminal blocks Transmission distance: RS-232 serial port, 15m; RS-485/422 serial port, 1200m Direction control: RS-485 adopts automatic data flow control technology which can detect and control data transmission direction automatically Load capacity: RS-485 supports 32-point polling environment (128-point could be customized) Interface protection: 600W surge protection, 15kV electrostatic protection
Power Requirement	No power supply; Obtain power from TXD, RTS, DTR signals of RS-232 serial port
Power Consumption	Static power consumption: ≤10mA Dynamic power consumption(mean): ≤40mA
Environmental Limit	Operating temperature: -40~80℃ Storage temperature: -40~85℃ Relative humidity: 5%~95%(no condensation)
Physical Characteristic	Housing: plastic Dimension (W x H x D): 95mm×33mm×16.5mm Weight: 30g
Certification	CE, FCC, RoHS
Warranty	3 years

Typiacal Application

- RS-232 to RS-485 mode



- RS-232 to RS-422 mode



Ordering Information

Available Models	RS-232	RS-485/422	Power Supply
SW485C	1	1	No

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