3onedata
Reliable Connections



SW485GI

Wall Mounting

Industrial RS-232/485/422 Converter and RS-485/422 Relay (2-in-1)

- Support bidirectional data conversion between 1 RS-232 serial port and 1 RS-485/422 serial port
- Support RS-485/422 repeater function, centralized relay function and data bidirectional conversion in one
- One end of the RS-485/422 serial port uses an independent external power supply, and the other end uses DC/DC isolation conversion to provide power, and provides signal 3kV photoelectric isolation
- Using "pre-emphasis" technology, the communication distance can reach up to 3000 meters (9600bps)
- The serial port provides 1500W surge protection and 15kV static protection
- Support 12~36VDC wide voltage input
- Support -40~75℃ wide operating temperature range

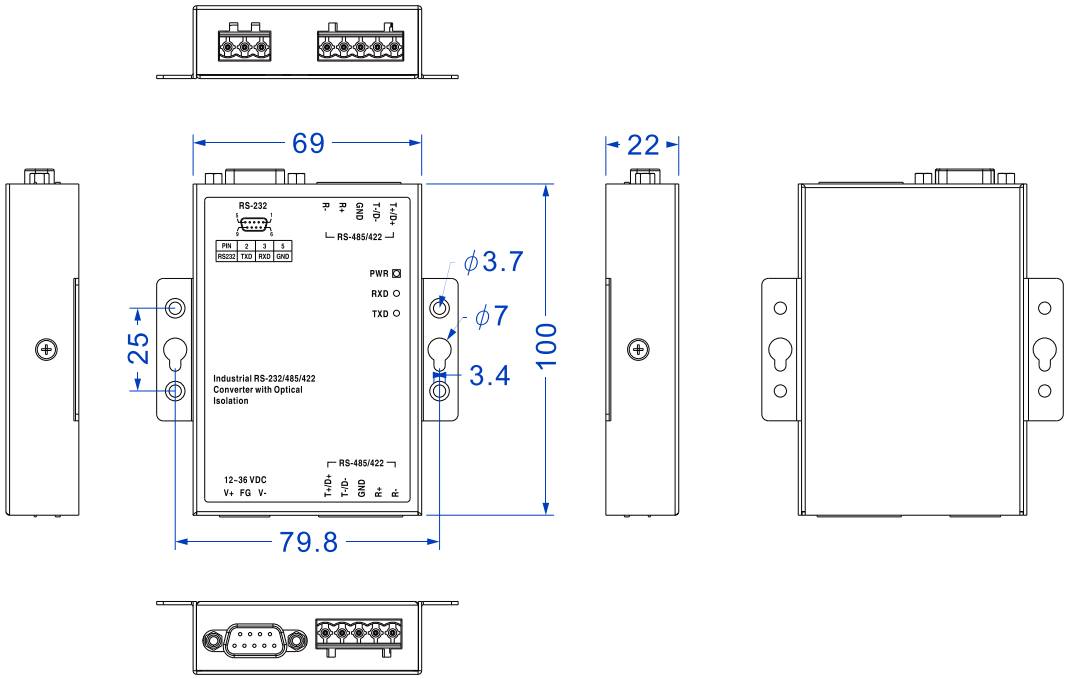
Introduction

SW485GI is an industrial interface converter device that integrates RS-232 and RS-485/422 bidirectional conversion and RS-485/422 relay. It can achieve data bidirectional conversion between RS-232 and RS-485/422 serial ports, or serve as a relay for RS-485 and RS-422 transmission. The product supports 1 RS-232 serial port and 2 RS-485/422 serial ports, and RS-485/422 supports serial self-adaption technology. Without switch setting, it can automatically recognize RS-485/422 serial port. The serial port has 1500W surge protection, 15kV electrostatic protection, and 3kV photoelectric isolation protection, which can effectively protect equipment from damage. It adopts wall mounting, which can meet the requirements of different application scenes.

Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can adapt to the industrial scene environment with harsh requirements for EMC. It can be widely used in power systems, industrial automation control, IC card charging systems, and measuring instruments.

Dimension

Unit: mm



Specification

Serial Port	Standard: EIA RS-232C, RS-485, RS-422 Quantity of serial port: 1 RS-232 serial port, 2 RS-485/422 serial ports Conversion mode: RS-232 and RS-485/422 data conversion, RS-485/422 relay (two modes cannot work at the same time) RS-232 signal: TXD, RXD, GND RS-485 signal: D+, D-, GND RS-422 signal: T+, T-, R+, R-, GND Baud rate: 300bps~115200bps Interface form: RS-232 serial port, adopt 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, 3000m (9600bps) Direction control: RS-485 direction adopts Automatic Data Direction Control (ADDC) technology to automatically identify and control data transmission direction Load capacity: RS-485 supports 32 points polling (customizable 128 points) Interface protection: 1500W surge protection, 15kV electrostatic protection photoelectric isolation: 3kV
Indicator	Power indicator, serial port transmission and receiving data indicator
Power Supply	12~36VDC, 3-pin 5.08mm pitch terminal blocks
Power Consumption	Normal temperature no-load: – 0.2W@12VDC – 0.2W@24VDC – 0.2W@36VDC Normal temperature full-load: – 0.3W@12VDC – 0.3W@24VDC – 0.3W@36VDC High temperature full load: – 0.3W@12VDC – 0.3W@24VDC – 0.3W@36VDC
Working Environment	Operating temperature: -40~75℃ Storage temperature :-40~75℃

	Relative humidity: 5%~95% (no condensation)
Mechanical Structure	Shell: Metal shell, IP40 protection Installation: wall mounting Dimension (W x H x D): 69mm×22mm×100mm Weight: 170g
Industrial Standard	IEC 61000-4-2 (ESD, electrostatic discharge), Level 3 ● Air discharge: ±8kV ● Contact discharge: ±6kV IEC 61000-4-4 (EFT, electrical fast transient pulses), Level 3 ● Power supply: ±2kV ● Serial port: ±1kV ● IEC 61000-4-5 (Surge), Level 3 ● Power supply: ±2kV ● Serial port: ±1kV Insulation resistance: ＞20MΩ (500VDC) Dielectric strength: ＜5mA (500VAC) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Authentication	CE, FCC, RoHS
Warranty	3 years

Ordering Information

Model	RS-232	RS-485/422	Power Supply
SW485GI	1	2	12~36VDC

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◄ Please scan our QR code for more details

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