

# SW485GI

## Industrial Isolation RS-232/485/422 Converter and Repeater

### Features

1. Support DIN-rail, Terminal block connection
2. 12~36VDC Power input(3 bit terminal block)
3. Adopt itself adapt interface technique, no use for setup switch
4. Adopt ADDC, auto distinguish and data transfer direction.
5. Can use for RS485/422 repeater and RS232 to RS485/422 converter, but just use one function at same time
6. Supply 3000V optic-electrical isolation, 1500W surge protection
7. Reach up to 3000m at the rate of 9600bps



### Introduction

SW485GI Can use for RS485/422 repeater and RS232 to RS485/422 converter, but just use one function at same time. The product must have 12-36VDC power input, optic- electrical isolation more than

3KV. Have small volume, 3000m transfer distance, high rate, steadily performance and so on. It is abroad used in industry control system, It is a best performance and price interface converter and Repeater.

### Specification

Standards: EIA RS-232C, RS-485, RS422 standard

RS-232 signal: TX, RX, GND

RS-422 signal: T+, T-, R+, R-, GND

RS-485 signal: D+, D-, GND

Working mode: Asynchronism, point to point or multi point, 2 wire half-duplex,4 wire full duplex

Baud rate: 300~115200bps, auto test serial signal rate detect signal speed automatically, zero delay time

Flow control: Data direction auto-turnaround, no flow control is required

Transfer distance: RS-485/422 side:3Km(9600bps)  
RS-232 side: no less than 5m

Max number of drops: 128 nodes

Optical isolation: 3000V

Port protect: 1500W surge protection,15KV ESD protection

Connector: RS-232 side DB9 female

RS-485/422 side 5 bit terminal block

Isolation mode, adopt +12V~36VDC input power, provide 3000V isolation

### Environment

Operating temperature: -10°C to 60°C

Storage temperature: -40°C to 85°C

Humidity: 5% to 95%(no condensation)

### Appearance

Dimensions: 100.0mm×69.0mm×22.0mm

Material: Iron(shell)

Color: White

Weight: 200g

**Warranty: 5 years**

**Approvals: FCC, CE, RoHS approvals**

### Applications

#### 1. RS232 to RS485 mode option:

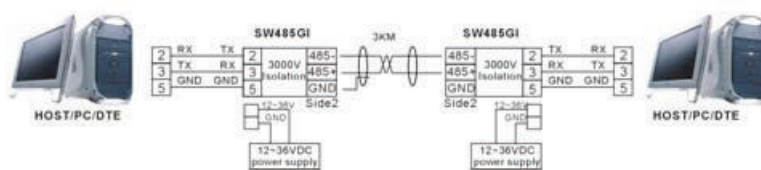


Figure 1: Extending the RS232 data distance in RS485 mode



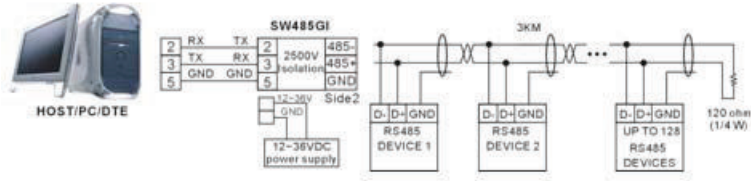


Figure 2: Master/Slave multi-drop configuration in RS485 mode

2. RS232 to RS422 mode option:

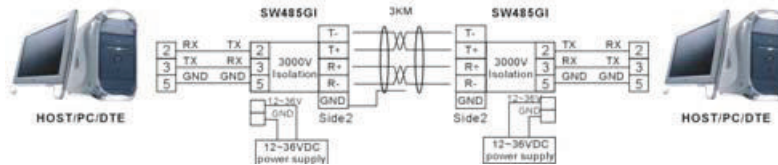


Figure 3: Extending the RS232 data distance in RS422 mode

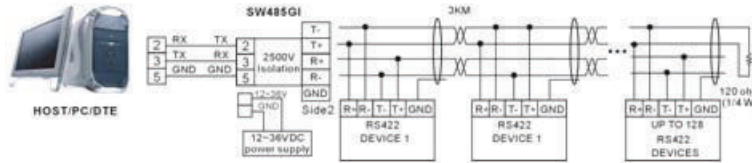


Figure 4: Master/Slave multi-drop configuration in RS422 mode

3. Use for repeater:

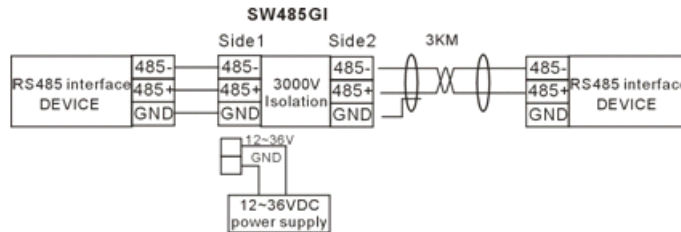


Figure 5: configuration in RS485 repeater mode

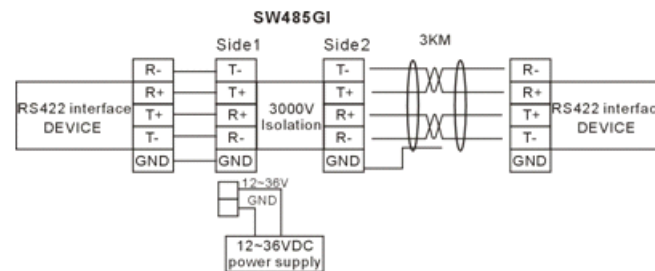
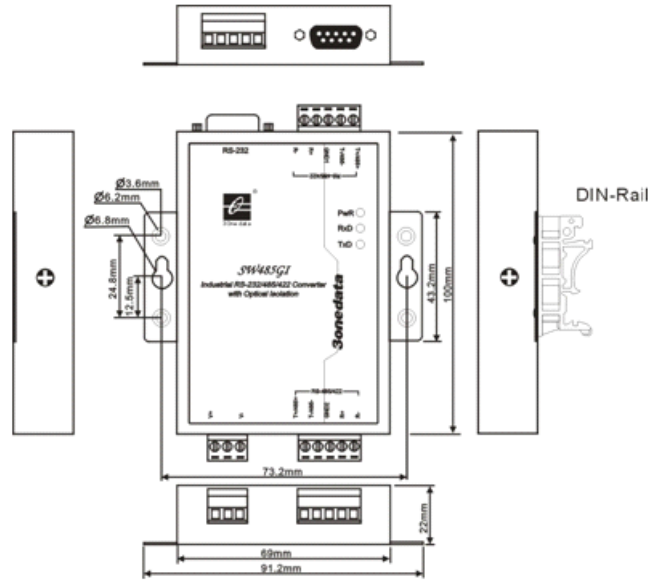


Figure 6: configuration in RS422 repeater mode

## Dimension



## Packing List

1. SW485GI×1
2. DB9F to DB9M convert line×1
3. User manual ×1