**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**

- 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](image-url)
2. RS232 to RS422 mode option:

3. Use for repeater:
Datasheet

Dimension

Packing List
1. SW485GI x 1
2. DB9F to DB9M convert line x 1
3. User manual x 1