SW4485I

DIN-Rail Mounting
4-port RS-485 HUB with Isolation

- Support 1 RS-232/485 upper computer port, and 4 RS-485 lower computer port

- Each lower computer port can connect to 32 standard RS-485 devices(nodes)

- Support cascading of multiple SW4485I, up to 256 RS-485 buses

- Automatic serial port signal rate detection, support 300bps~115200bps serial port baud rate, zero-delay conversion

- Serial port provides 15kV electrostatic protection and 2kVAC isolation protection

- Unique automatic detection and alarm of RS-485 signal reverse connection
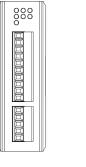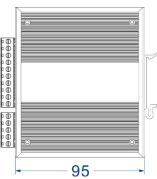
Introduction

SW4485I is a RS-485 bus split HUB designed for addressing RS-485 large scale system needs in complex electromagnetic field. It supports up to 115.2kbps transmission rate and adopts bidirectional transparent transmission that could split 1 RS-485 bus into 4 RS-485 buses or transparently transmit any RS-485 signal to the RS-485 bus or RS-232 of the upper computer. Each RS-485 port of this product's lower computer is equipped with reverse connection fault alarm and protection function, which has improved the reliability of current RS-485 network remarkably and shortened the time of maintaining network effectively. In order to ensure the safety and reliability of data communication, RS-485 ports of this product are all provided with 2kVAC isolation voltage protection, level-4 electrostatic protection and level-2 radiated immunity protection which could prevent lightning strike, electrostatic and radiated interference. It's safe and reliable, and appropriate for outdoor engineering application.
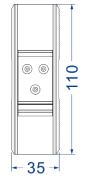
SW4485I also provides RS-485 bus star connection. User could easily improve RS-485 bus structure and split network segment. Reasonable utilization of SW485I enables you to design a unique and reliable RS-485 system. SW4485I adopts EMC protection and supports Din-Rail mounting and -40℃~75℃ wide operating temperature range, which can meet the requirement of different scenes.

Dimension

Unit:mm

Specification

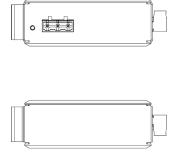|	
Serial Port	Standard: EIA RS-232C, RS-485
	Serial port quantity: upper computer port, 1 RS-232/485 serial port；lower computer port, 4 RS-485 serial ports
	RS-232 signal: TXD, RXD, GND

	RS-485 signal: D+, D-, GND Baud rate: 300bps~115200bps Data bit: 5bit, 6bit, 7bit, 8bit Stop bit: 1bit, 1.5bit, 2bit Check bit: None, Odd, Even, Mask, Space Interface form: upper computer port (RS-232/485), adopts 5-pin 5.08mm pitch terminal blocks ; lower computer port(RS-485), adopts 10-pin 5.08mm pitch terminal blocks Transmission distance: RS-232 serial port, 15m；RS-485 serial port, 1200m Direction control: RS-485 adopts automatic data flow control technology, which could detect and control the direction of data flow Load capacity: RS-485 supports 32-point polling environment Interface protection: 15kV electrostatic protection, 2kVAC isolation protection
LED Indicator	Power Supply Indicator, serial port data sending/receiving indicator, lower computer serial port indicator
Power Requirement	12~48VDC, 3-pin 7.62mm pitch terminal blocks； Power supply supports non-polarity
Power Consumption	No-load: 0.696W@24VDC Full-load: 0.696W@24VDC
Environmental Limit	Operating temperature: -40~75℃ Storage temperature: -40~85℃ Relative humidity: 5% ~ 95%(no condensation)
Physical Characteristic	Housing: metal　IP40 protection Installation: DIN-Rail mounting Dimension (W x H x D): 35mm×110mm×95mm weight: 384.8g
Industrial Standard	IEC 61000-4-2 (ESD, electrostatic discharge), Level 4 ● Air discharge: ±15kV ● Contact discharge: ±8kV IEC 61000-4-3 (RS, radiofrequency electromagnetic radiated immunity), Level 2 ● Test level: 3V/m ● Frequency range: 80MHz-1GHz

	Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	3 years

Ordering Information

Available Models	RS-232/485 (upper computer)	RS-485 (lower computer)	Power Supply
SW4485I	1	4	12~48VDC

*Product pictures and technical data in this datasheet are only for reference. Updates are subject to change without prior notice. The final interpretation right is reserved by 3onedata.