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I-7563

USB to Isolated RS-485 Active Star Wiring Converter

Features

- Fully Compliant with USB 1.1/2.0 (High Speed)
- No External Power Supply required
- RS-485 Active Star Wiring Applications
- Baud Rate, 300 ~ 115200 bps
- 3000 V_{DC} Isolation Protection on the RS-485 side
- ESD Protection for the RS-485 Data Line
- Operating Temperatures, -25 °C ~ +75 °C
- Driver Supports Windows 98/ME/2000/XP/Vista (32/64-bit)/ 7 (32/64-bit)/Linux
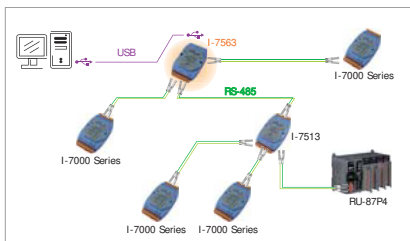- DIN-Rail

Introduction

The I-7563 is a cost-effective module for transferring serial data via USB. It allows you to connect your serial devices to systems that use a USB interface. Connecting the I-7563 to a PC. The I-7563 contains "Self-Tuner" This chip auto-tunes the Baud Rate and data format to the RS-485 network. The I-7563 module derives its power from the USB port and doesn't need any power adapter. It also features a high-speed 115.2 kbps transmission rate, and supports various O.S.

Do you have any RS-485 wiring problems I-7563 is a USB to 1-channel RS-485 converter with a 3-way RS-485 Hub. Each channel contains its own RS-485 driver IC, so it can support star-shaped wiring.
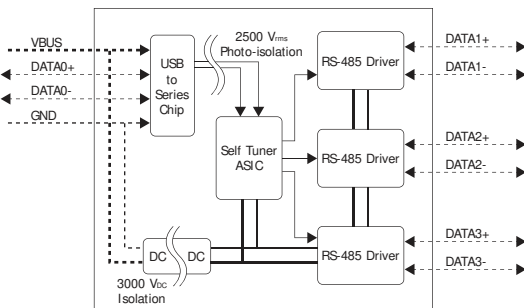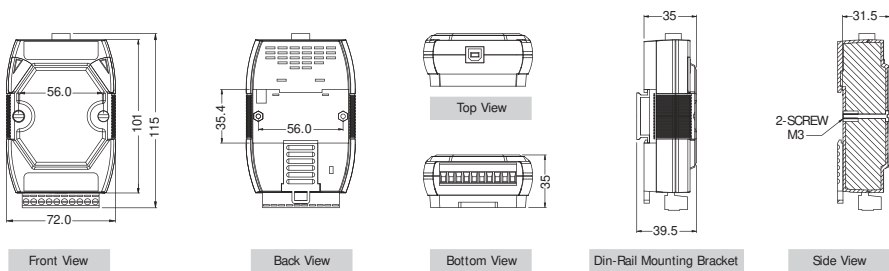
Applications

Specifications

Interface		
USB		Compatibility: USB 1.1 and 2.0 standards
RS-485		3 Channels: For active star wiring applications
		Data1+, Data1-
		Data2+, Data2-
		Data3+, Data3-
2-wire cabling		Belden 8941 (2P twisted-pair cable), if different cables are used, the transmission distance may change
RS-485 Transfer Distance		Max. 1,200 m at 9.6 kbps; Max. 400 m at 115.2 kbps
Maximum Supported RS-485 Devices		Max. of 256 devices
Self-Tuner Asic Inside for RS-485		Yes
Speed		300 ~ 115200 bps
Connection	RS-485	Removable 10-Pin Terminal Block
	USB	Type B
Cable Included		CA-USB18 (1.8 m Cable) x 1
LED Indicators		
Power		Yes
Power		
Input Voltage Range		+5 V_{DC} from USB
Power Consumption		0.5 W
Mechanical		
Casing		Plastic
Flammability		Fire Retardant Materials (UL94-V0 Level)
Dimensions (W x H x D)		72 mm x 115 mm x 35 mm
Installation		DIN-Rail
Environment		
Operating Temperature		-25 °C ~ +75 °C
Storage Temperature		-30 °C ~ +75 °C
Humidity		10 ~ 90% RH, non-condensing

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◪ Internal I/O Structure

◪ Dimensions (Unit: mm)

| Front View | Back View | Bottom View | Din-Rail Mounting Bracket | Side View |

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USB to RS-232/422/485 Converters

◪ Pin Assignments

Terminal No.		Pin Assignment
RS-485	01	DATA3+
	02	DATA3-
	03	--
	04	--
RS-485	05	DATA2-
	06	DATA2+
	07	--
	08	--
RS-485	09	DATA1-
	10	DATA1+

◪ Ordering Information

I-7563 CR	USB to Isolated RS-485 Active Star Wiring Converter (RoHS)
I-7563-G CR	USB to Isolated RS-485 Active Star Wiring Converter (Gray Cover) (RoHS)
Include Cable	CA-USB18 (1.8 m Cable) x 1

◪ Accessories

USB-2560 CR	Industrial 4-port USB 2.0 Hub
CA-USB18	USB Type A to Type B Cable

I-7563