



# 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 is required as the I-7561 is powered from the USB Bus
- RS-485 Active Star Wiring Applications
- Baud Rate, 300 ~ 115200 bps
- 3000 V<sub>oc</sub> 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

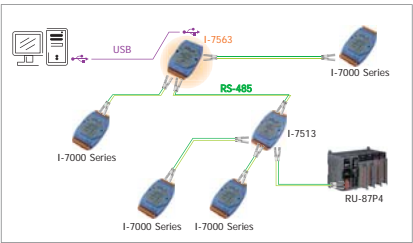


## Introduction

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.

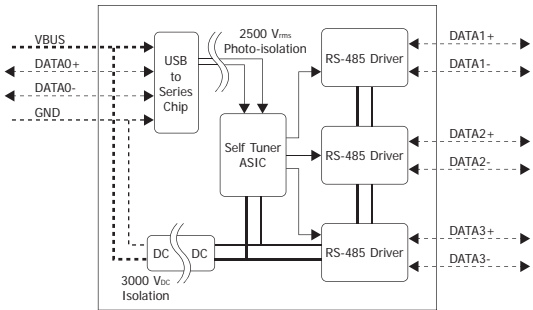
## Applications



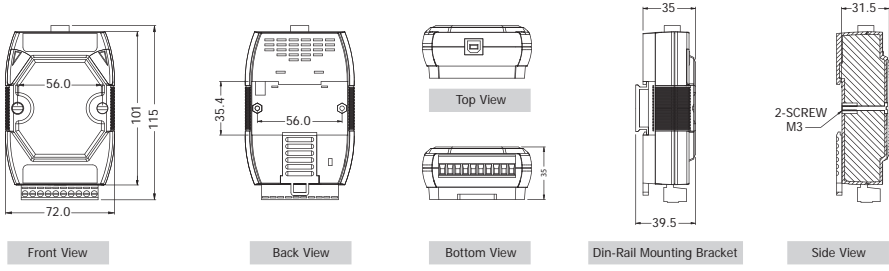
## Specifications

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 <sub>oc</sub> 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

## Internal I/O Structure



## Dimensions (Unit: mm)



## 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