



I-7563/I-7563U

USB to Isolated RS-485 Active Star Wiring Converter

Features

- Fully Compliant with the USB 1.1/2.0/3.0
- 3000 VDC Isolation Protection on the RS-485 side
- ESD Protection for the RS-485 Data Line
- No External Power Supply required
- Automatic RS-485 Direction Control
- Operating Temperatures, -25 °C ~ +75 °C
- RS-485 Active Star Wiring Applications
- Transmission speed up to 921.6 kbps (For I-7563U)
- DIN-Rail Mounting



Introduction

The I-7563/I-7563U 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/I-7563U to a PC, you get one COM port on system. The I-7563/I-7563U contains "Self-Tuner", this chip auto-tunes the Baud Rate and data format to the RS-485 network. The I-7563/I-7563U module derives its power from the USB port and doesn't need any power adapter.

Do you have any RS-485 wiring problems I-7563/I-7563U 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.

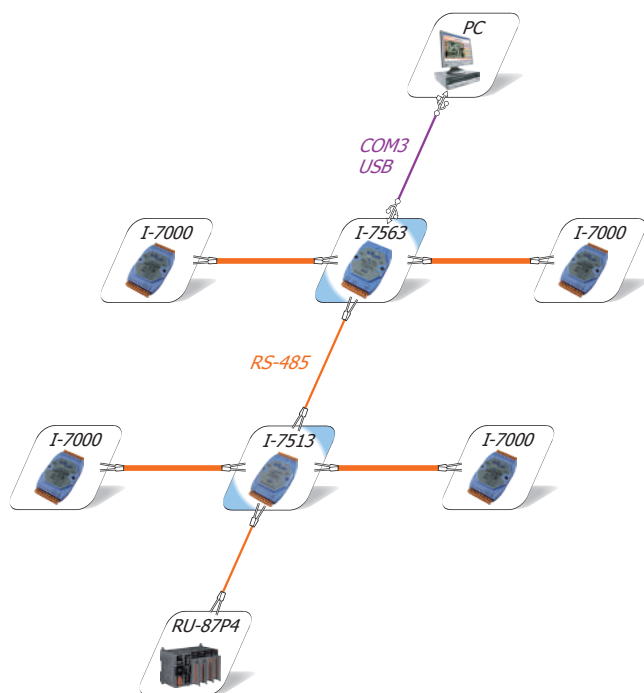
Software

| | |
|----------------|---|
| I-7563 Driver | Windows 98/ME/2000/XP/Vista (32/64-bit)/7 (32/64-bit)/10 (64-bit)/Linux |
| I-7563U Driver | Windows 98/ME/2000/XP/Vista (32/64-bit)/7 32/64-bit/8 (32/64-bit)/8.1 (32/64-bit)/10 (64-bit)/Linux |

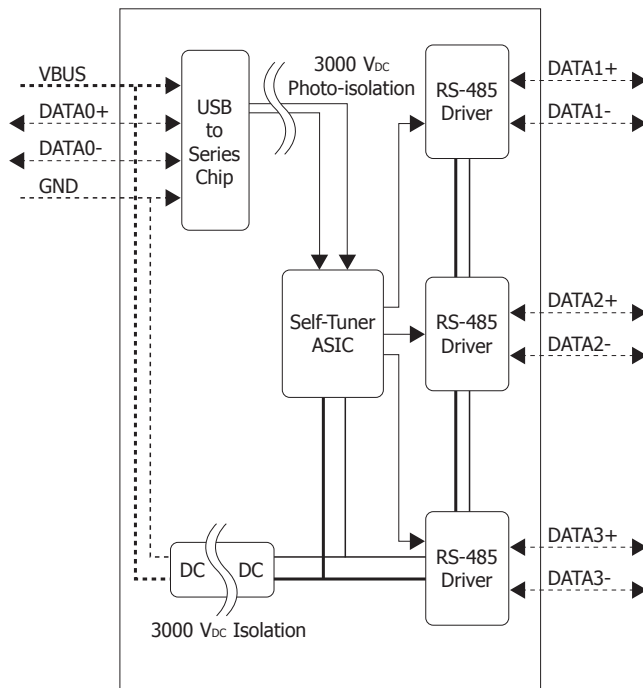
System Specifications

| Models | | I-7563 | I-7563U |
|-----------------------------------|--------|---|------------------|
| Interface | | | |
| USB | | Fully Compliant with the USB 1.1/2.0/3.0 | |
| RS-485 | | 3 Channels: For active star wiring applications | |
| | | Data1+, Data1- | |
| | | Data2+, Data2- | |
| | | Data3+, Data3- | |
| RS-485 Transmission Distance | | Max. 1,200 m at 9.6 kbps; Max. 400 m at 115.2 kbps (Belden 9841 2P twisted-pair cable, if different cables are used, the transmission distance may change) | |
| Self-Tuner Asic Inside for RS-485 | | Yes | |
| Speed | | 300 ~ 115200 bps | 300 ~ 921.6 kbps |
| Connector | 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 VDC from USB | |
| Power Consumption | | 0.5 W | |
| Mechanical | | | |
| Casing | | Plastic | |
| Dimensions (W x H x D) | | 72 mm x 115 mm x 35 mm | |
| Installation | | DIN-Rail Mounting | |
| Environment | | | |
| Operating Temperature | | -25 °C ~ +75 °C | |
| Storage Temperature | | -30 °C ~ +75 °C | |
| Humidity | | 10 ~ 90% RH, non-condensing | |

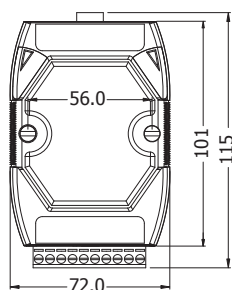
Applications



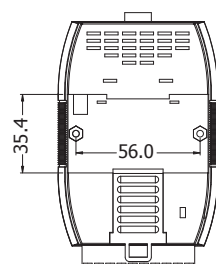
Internal I/O Structure



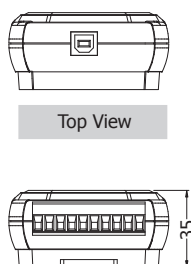
Dimensions (Units: mm)



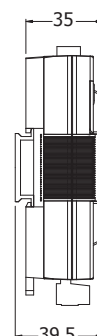
Front View



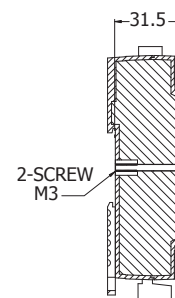
Rear View



Bottom View



DIN-Rail Mounting Bracket



Side View

Pin Assignments



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

Ordering Information

| | |
|-------------|---|
| I-7563 CR | USB to Isolated RS-485 Converter with CA-USB18 Cable (Blue Cover) (RoHS) |
| I-7563-G CR | USB to Isolated RS-485 Converter with CA-USB18 Cable (Gray Cover) (RoHS) |
| I-7563U CR | High-speed USB to Isolated RS-485 Converter with CA-USB18 Cable (Gray Cover) (RoHS) |

Accessories

| | |
|-------------|--------------------------------------|
| USB-2560 CR | 4-port Industrial USB 2.0 Hub (RoHS) |
|-------------|--------------------------------------|