



I-7561/I-7561U

USB to Isolated RS-232/422/485 Converter

Features

- Fully Compliant with the USB 1.1/2.0/3.0
- 3000 VDC Isolation Protection on the RS-232/422/485 side
- ESD Protection for the RS-232/422/485 Data Line
- No External Power Supply required
- Automatic RS-485 Direction Control
- Transmission speed up to 921.6 kbps (For I-7561U)

Introduction

The I-7561/I-7561U 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-7561/I-7561U to a PC, you get one RS-232/422/485 port. Like the I-7520A, the I-7561 contains "Self-Tuner" chip auto-tunes the Baud Rate and data format to the RS-485 network. The I-7561/I-7561U module derives its power from the USB port and doesn't need any power adapter.

Software

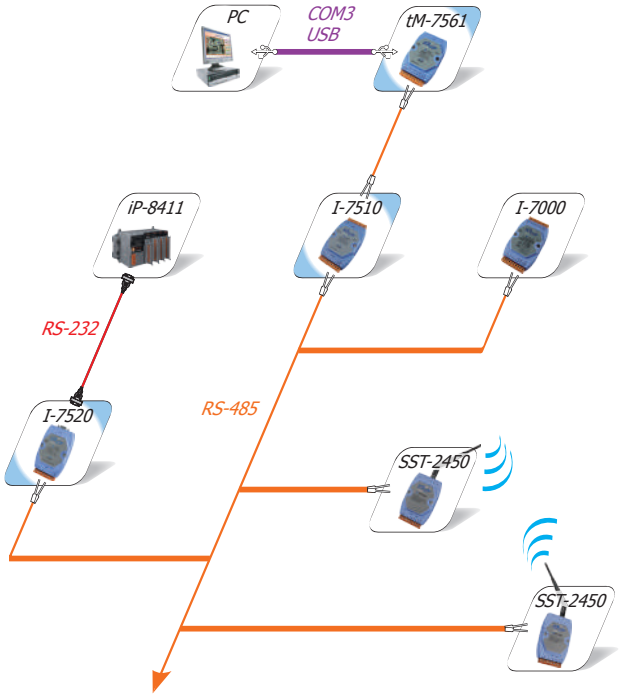
I-7561 Driver	Windows 98/ME/2000/XP/Vista (32/64-bit)/7 (32/64-bit)/10 (64-bit)/Linux
I-7561U Driver	Windows 7 (32/64-bit)/8 (32/64-bit)/10 (64-bit)/11 (64-bit)/Linux

System Specifications

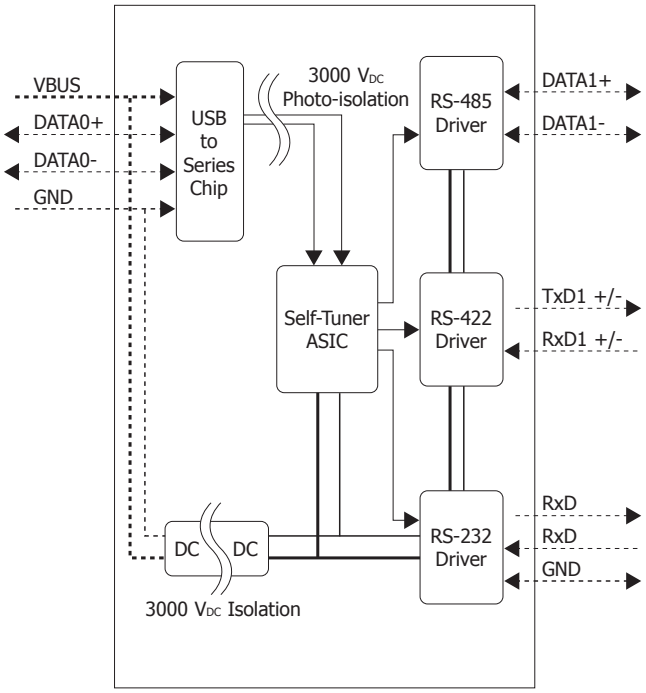
Models		I-7561	I-7561U
Interface			
USB		Fully Compliant with the USB 1.1/2.0/3.0	
Serial Interface	RS-232	The RS-232, RS-422 and RS-485 cannot be used simultaneously • TxD, RxD, GND • TxD+, TxD-, RxD+, RxD- • Data+, Data-	
	RS-422		
	RS-485		
RS-422/485 Transmission Distance		Max. 1,200 m at 9.6 kbps; 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 (RS-485)		Yes	
Speed		300 ~ 115200 bps	300 ~ 921.6 kbps
Connector	RS-232/422/485	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 L x H)		72 mm x 35 mm x 115 mm	
Installation		DIN-Rail Mounting	
Environment			
Operating Temperature		-25 °C ~ +75 °C	
Storage Temperature		-30 °C ~ +75 °C	
Humidity		10 ~ 90% RH, non-condensing	

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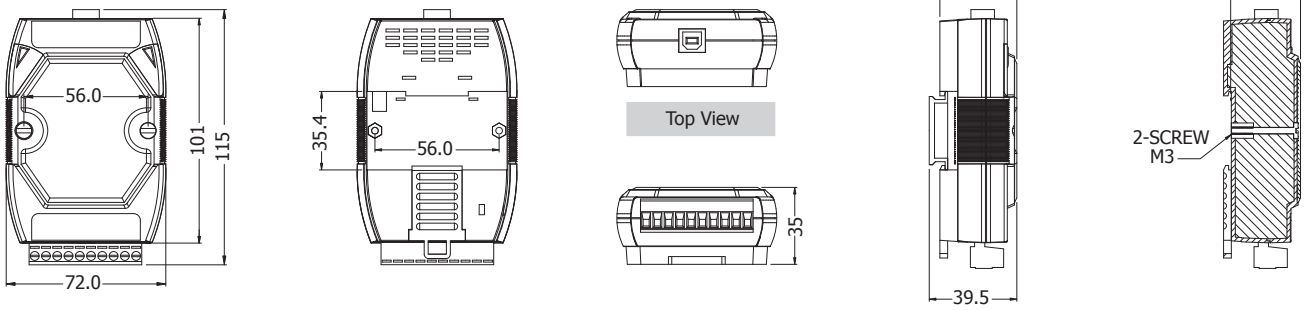
Applications



Internal I/O Structure



Dimensions (Units: mm)



Pin Assignments



Terminal No.		Pin Assignment
RS-485	01	DATA+
	02	DATA-
RS-422/485	03	TxD+
	04	TxD-
	05	RxD+/DATA2+
	06	RxD-/DATA2-
RS-232	07	TxD
	08	RxD
	09	(B)GND
	10	(B)GND

Ordering Information

I-7561 CR	USB to Isolated RS-232/422/485 Converter with CA-USB18 Cable (Blue Cover) (RoHS)
I-7561-G CR	USB to Isolated RS-232/422/485 Converter with CA-USB18 Cable (Gray Cover) (RoHS)
I-7561U CR	High-speed USB to Isolated RS-232/422/485 Converter with CA-USB18 Cable (Gray Cover) (RoHS)

Accessories

USB-2560 CR	4-port Industrial USB 2.0 Hub (RoHS) Includes CA-USB18 Cable

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