

**I-7561**

USB to Isolated RS-232/422/485 Converter

**I-7561U NEW**

 USB to Isolated RS-232/422/485 Converter  
(Windows 8 / 8.1)

**Features** ▶▶▶

- Fully Compliant with the USB 1.1/2.0/3.0
- 3000 V<sub>dc</sub> Isolation Protection on the RS-232/422/485 side
- ESD Protection for the RS-232/422/485 Data Line
- Transmission speed up to 921.6 kbps (For I-7561U)
- No External Power Supply required
- Automatic RS-485 Direction Control
- Operating Temperatures, -25 °C ~ +75 °C
- DIN-Rail Mounting

**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.

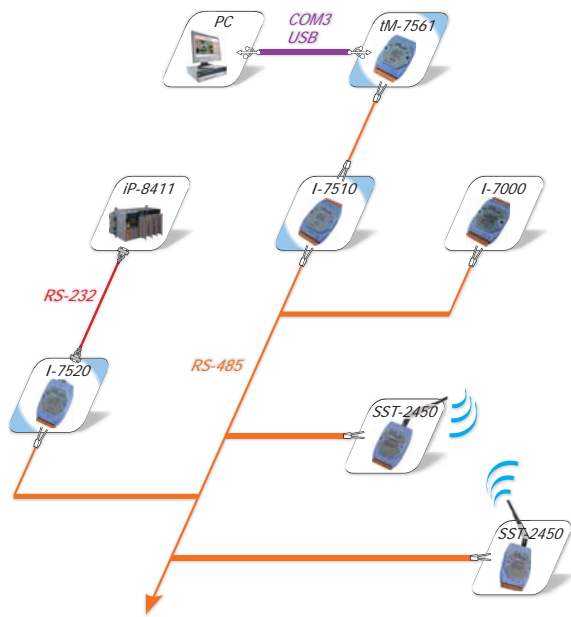
**Software**

I-7561 Driver	Windows 98/ME/2000/XP/Vista (32/64-bit)/7 (32/64-bit)/Linux
I-7561U Driver	Windows 98/ME/2000/XP/Vista (32/64-bit)/7 (32/64-bit)/8 (32/64-bit)/8.1 (32/64-bit)/Linux

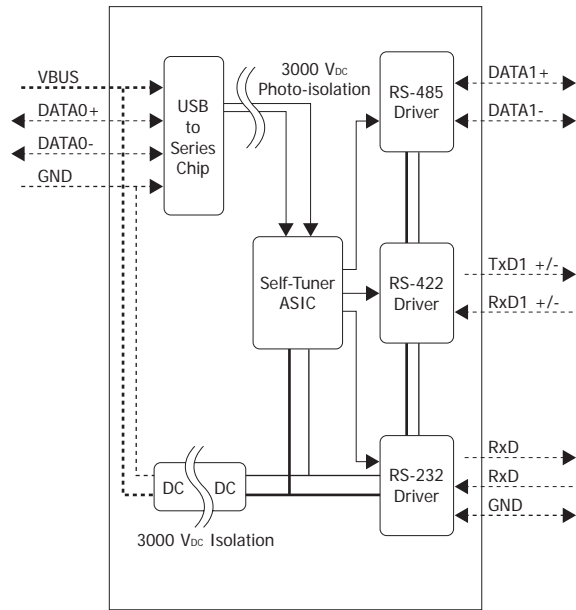
**System Specifications**

Models	I-7561	I-7561U
<b>Interface</b>		
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	
<b>LED Indicators</b>		
Power	Yes	
<b>Power</b>		
Input Voltage Range	+5 V <sub>dc</sub> from USB	
Power Consumption	0.5 W	
<b>Mechanical</b>		
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 Mounting	
<b>Environment</b>		
Operating Temperature	-25 °C ~ +75 °C	
Storage Temperature	-30 °C ~ +75 °C	
Humidity	10 ~ 90% RH, non-condensing	

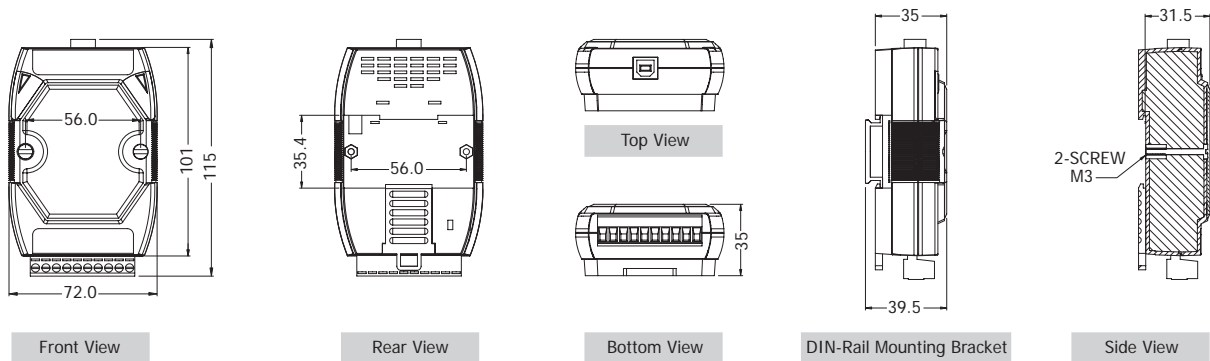
## Applications



## Internal I/O Structure



## Dimensions (Unit: mm)



## Pin Assignments



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

## Ordering Information

I-7561 CR	USB to Isolated RS-232/422/485 Converter (RoHS)
I-7561-G CR	USB to Isolated RS-232/422/485 Converter (Gray Cover) (RoHS)
I-7561U-G CR	USB to Isolated RS-232/422/485 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