

USB to Isolated RS-485 Converter

tM-7561

User Manual

Warranty

All products manufactured by ICP DAS are warranted against defective materials for a period of one year from the date of delivery to the original purchaser.

Warning

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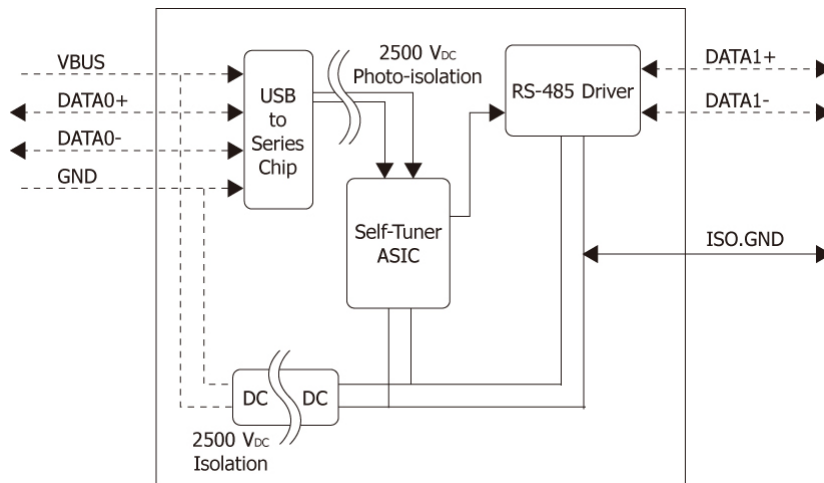
Trademark

The names used for identification only may be registered trademarks of their respective companies.

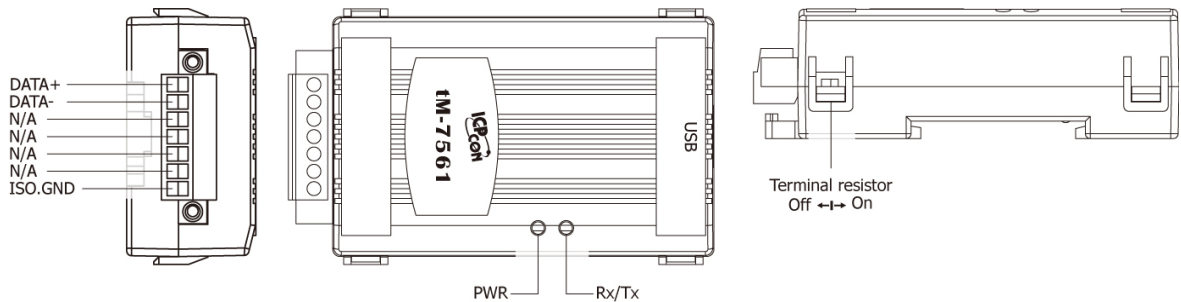
Introduction

The tM-7561 is a cost-effective USB to RS-485 converter. Connecting the tM-7561 to a PC, you get one RS-485 port that allows you to access RS-485 devices through the USB interface. Like the I-7520, the tM-7561 contains "Self-Tuner" chip auto-tunes the baud rate and data format to the RS-485 network. The tM-7561 module derives its power from the USB port and doesn't need external power adapter.

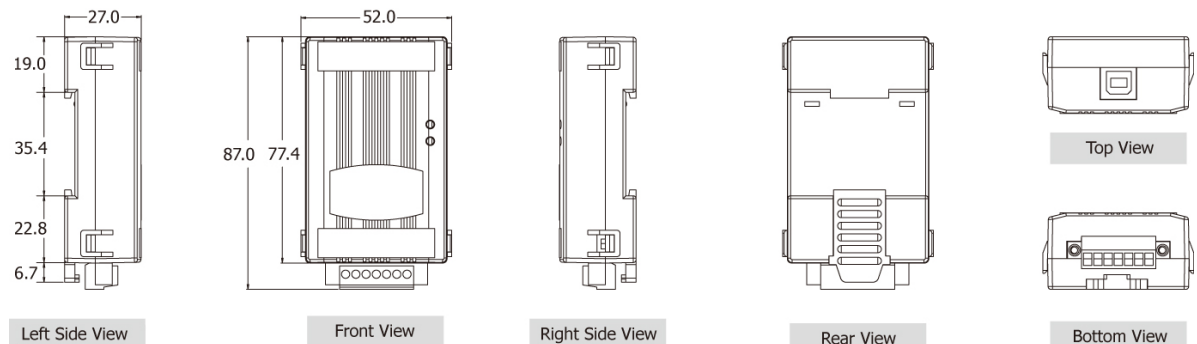
Internal I/O Structure:



Pin Assignments:



Dimensions (Unit: mm):



Hardware Specifications

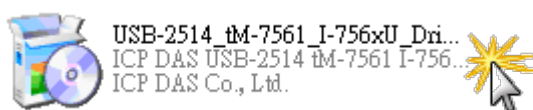
Specifications

Model		tM-7561
Interface		
USB		Fully Compliant with the USB 1.1/2.0/3.0
RS-485		Data+, Data-
Transfer Distance		Max. 1,200 m at 9.6 kbps; Max. 400 m at 115.2 kbps
Self-Tuner Asic Inside		Yes
Speed		300 ~ 115200 bps
Termination Resistance		Yes
Connector	RS-485	Removable 7-Pin Terminal Block (Use Copper Conductors Only, wire range 16-26 AWG, torque value 3.0 lb-in)
	USB	Type B
Cable Included		CA-USB18 (1.8 m Cable) x 1
LED Indicators		
Power/Communication		Power, TxD and RxD
Power		
Input Voltage Range		+5 VDC from USB
Power Consumption		0.4 W
Mechanical		
Casing		Plastic
Flammability		Fire Retardant Materials (UL94-V0 Level)
Dimensions (W x H x D)		52 mm x 87 mm x 27 mm
Installation		DIN-Rail
Environment		
Operating Temperature		-25 °C ~ +75 °C
Storage Temperature		-30 °C ~ +75 °C
Humidity		10 ~ 90% RH, non-condensing
Driver		
Windows XP/7 (32/64-bit)/8 (32/64-bit)/10 (64-bit)/11 (64 bit)/Linux		

Installing the tM-7561 Drivers (Win10/Win11)

To install the tM-7561 series drivers, follow the procedure described below:

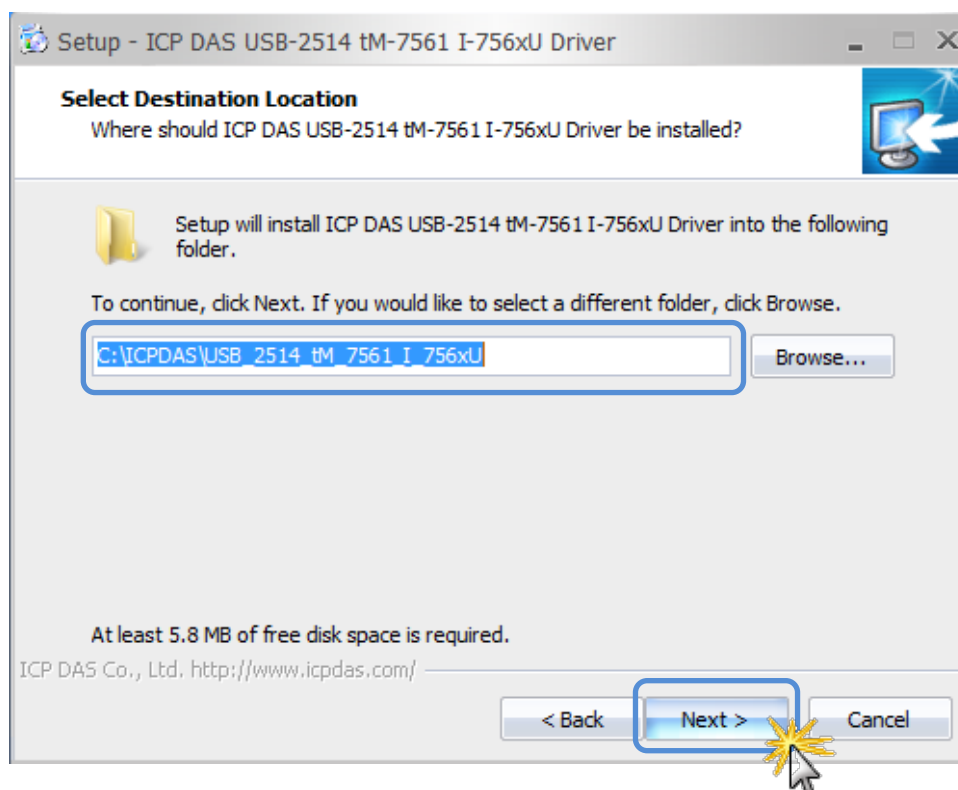
Step 1: Double click the “USB-2514_tM-7561_I-756xU_Driver_xxxxx.exe” to execute the driver installer application.



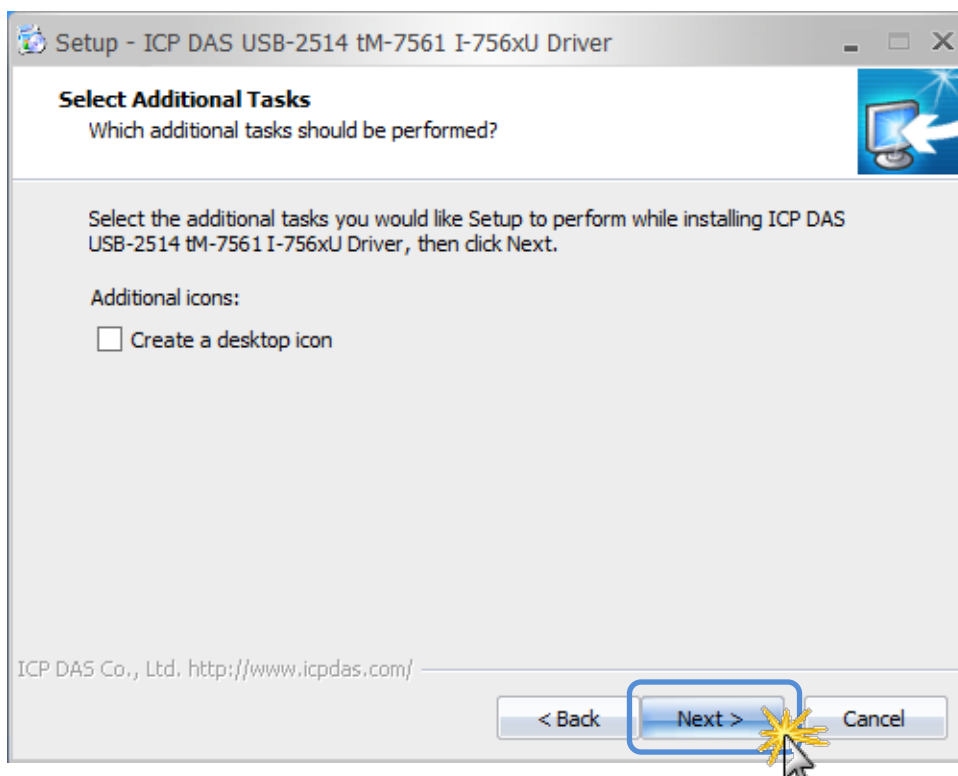
Step 2: Click the “Next>” button to start installation.



Step 3: Select the destination folder. The default path is C:\ICPDAS\USB_2514_tM_7561_I_756xU. Verify that the destination path is correct and click the “Next>” button.



Step 4: Click the “Next>” button.



Step 5: A warning dialog box will be displayed asking you to confirm whether you want to install the device software. The type of warning that is displayed will depend on which operating system is being used. Refer to the following figures for details.

Step 6: Click the “Finish” button to complete the installation.



Step 7: Please open “Device Manager” → check com port

