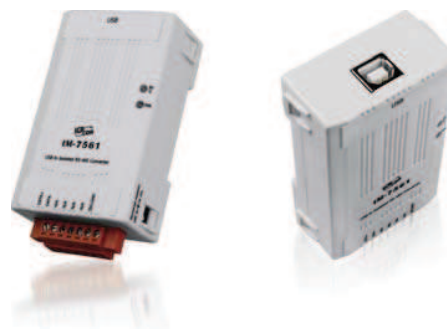


tM-7561

USB to Isolated RS-485 Converter



Features >>>>

- Fully Compliant with the USB 1.1/2.0 (High Speed)
- Power and data flow indicator for troubleshooting
- 2500 V_{DC} Isolation Protection on the RS-485 side
- Driver Supports Windows 98/ME/2000/XP/Vista (32/64-bit)/7 (32/64-bit)/Linux
- Tiny packaging fits on your DIN-Rail Mounting
- No External Power Supply required
- Automatic RS-485 Direction Control
- Operating Temperatures, -25 °C ~ +75 °C
- Low power consumption
- Cost-effective Converter

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.

Comparison Table of Converter

| Mode name | tM-7561 | I-7561 |
|------------------------|-----------------------------|------------------------|
| Serial Interface | Only RS-485 | RS-232/422/485 |
| Dimensions (W x H x D) | 52 mm x 87 mm x 27 mm | 72 mm x 115 mm x 35 mm |
| Remarks | Cost-effective, Entry-level | Entry-level |

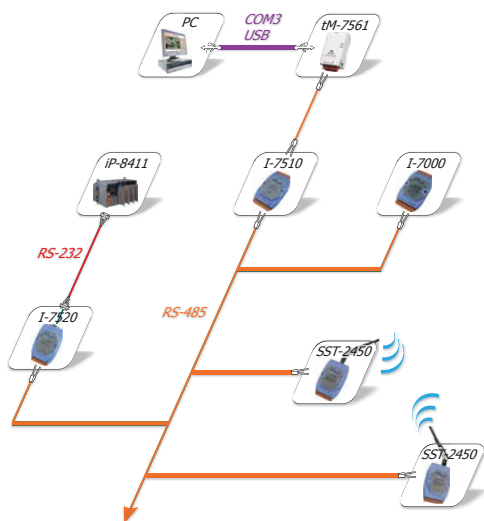
Software

| | |
|--------|---|
| Driver | Windows 98/ME/2000/XP/Vista (32/64-bit)/7 (32/64-bit)/Linux |
|--------|---|

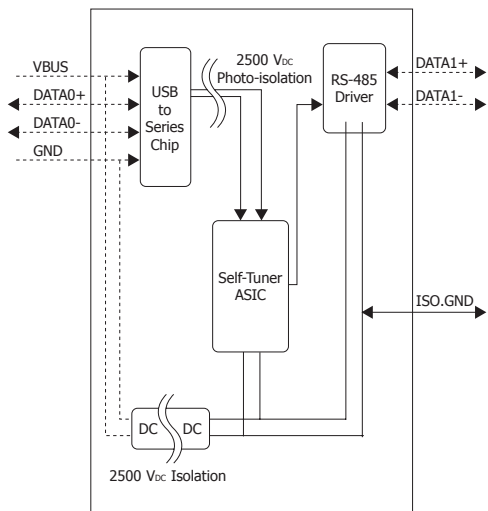
System Specifications

| Interface | | |
|------------------------------|--------|---|
| USB | | Compatibility: USB 1.1 and 2.0 standards |
| RS-485 | | Data+, Data- |
| 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 | | Yes |
| Speed | | 300 ~ 115200 bps |
| Connector | RS-485 | Removable 7-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 _{DC} 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 Mounting |
| Environment | | |
| Operating Temperature | | -25 °C ~ +75 °C |
| Storage Temperature | | -30 °C ~ +75 °C |
| Humidity | | 10 ~ 90% RH, non-condensing |

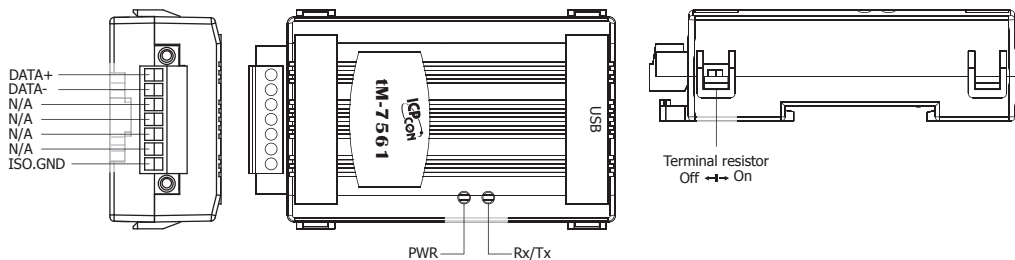
Applications



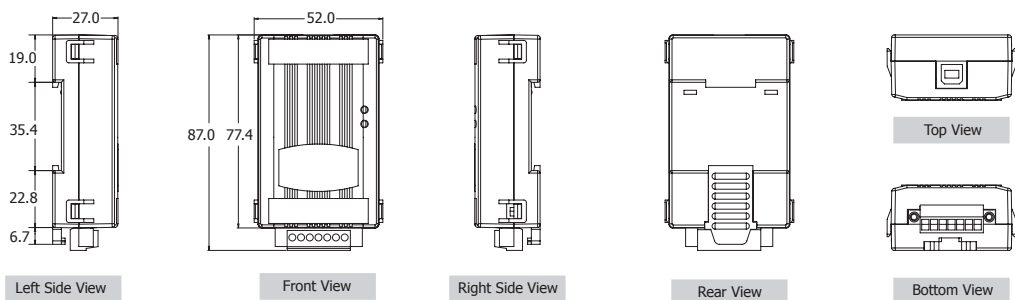
Internal I/O Structure



Pin Assignments



Dimensions (Unit: mm)



Ordering Information

| | |
|---------------|---|
| tM-7561 CR | USB to Isolated RS-485 Converter (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 |