

## I-7561

### USB to RS-232/RS-422/485 Converters

#### Description

The I-7561 is a cost-effective, industrial grade module for transferring serial data from a USB port. The I-7561 allows you to connect your serial devices to the PC using a USB interface. When the I-7561 is connected to a PC, you get one or two extra high-speed RS-232/422/485 ports. The I-7561 contains our "Self Tuner" chip. This chip auto-tunes the baud rate and data format to the serial network. The I-7561 module derives its power from the USB port and doesn't need a power adapter. The I-7561 features a high-speed 115.2 Kb/s transmission rate and includes drivers for Windows 98/Me/2K/XP and Linux.



I-7561

- USB 1.1 Compatible  
*Works with all PCs*
- RS-232/422/485 Output  
*Provides all signal formats*
- Auto tuner circuit for baud rates from 300-115200 baud.  
*Handles multiple data rates.*
- 3000 V Isolation  
*Prevents ground loops and electrical damage.*
- Connects serial devices via USB bus.  
*Overcomes the two COM port limit.*
- Mounts on standard DIN rail.  
*Easy mounting and replacement.*
- Includes USB Cable, single DIN rail, Windows 98/Me/2K/XP driver, Linux driver, and manual on CD ROM.

#### 7561 Model Usage

The I-7561 is a USB Plug&Play device that adds one or two serial ports to any WIN PC with a USB port. The Driver creates virtual COM ports that the user's programs can use to communicate with the serial device. Drivers are included for Microsoft Windows 98/ME/2K/XP and Linux.

#### DIN Rail Mounting

The I-7561 Converters mount on the industry standard DIN rail. This makes them easy to mount and to remove and replace if serving is ever required. DIN rails are available for single units or for multiple modules. Each I-7561 Converter includes a single unit DIN rail.

#### Typical Connections

The USB connection is via a USB cable to a USB 'B' plug. All serial connections are made on the plug-in screw terminal strip. The RS-232 connection uses just Tx, Rx and Ground. The RS-485 port uses just two wires for data. The RS-422 full-duplex connections uses 4 wires.

#### Serial Interfaces

##### RS-232 Interfaces:

|            |                                     |
|------------|-------------------------------------|
| Signals    | TX, RX and GND                      |
| Baud Rates | Std Windows rates up to 115.2 kbaud |
| Data Bits  | 7 or 8 bits                         |
| Parity     | None, odd or even                   |
| Stop bits  | 1 or 2                              |
| Flow Cntl  | None                                |

##### RS-422 Interface for 4-wire applications

|         |                  |
|---------|------------------|
| Signals | TX pair, RX pair |
|---------|------------------|

##### RS-485 Interface is half-duplex

|          |                     |
|----------|---------------------|
| Signals  | TX/RX pair          |
| Distance | 2.1 Km at 9600 baud |
|          | 2.7 Km at 4800 baud |
|          | 3.6 Km at 2400 baud |

#### Physical

|             |  |
|-------------|--|
| Size        | 123mm x 72mm x 33 mm<br>(without mounting bracket) |
| Connectors  | USB B  |
| Isolation   | 3000 Vdc   |
| Temperature |  |
| Operating   | -25 °C to 75 °C                                    |
| Storage     | -25 °C to 80 °C                                    |

Relative humidity  
5 to 95% (not condensing)

#### ORDERING INFORMATION

USB Module with Isolated RS-232/RS-422/RS-485 port

Part Number

I-7561

**CE** Approved

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