



Making Data Acquisition Easy

CAGE/NCAGE CODE: 3FNFO

tM-7520U Isolated RS-232 to RS-485 Converter Quick Start Guide

Product Website:

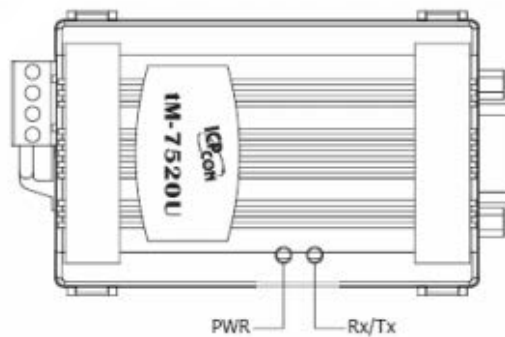
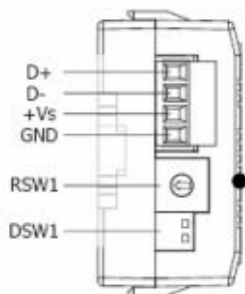
http://www.icpdas-usa.com/tm_7520u.html

1. Introduction

The tM-7520U transparently converts RS-232 signals into isolated RS-485 signal with no need to change any hardware or software. This lets you easily build an industrial grade, long-distance communication system using standard PC hardware. The module provides 2500 VDC of optical isolation allowing you to separate and protect critical segments of the system from the rest of the RS-485 network.

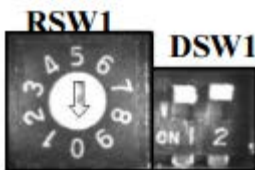
The tM-7520U provides 2 modes of baud rate setting, one is Self-Tuner mode and the other is Fixed baud rate mode. The Self-Tuner mode can support Multiple Baud Rate and Multiple Data Format. The Self-Tuner design is exactly the same as I-7520 series. The Fixed baud rate mode offers a better quality for data transmission over long or lossy lines or electrically noisy environments.

2. Pin Assignment



Pin Assignment	Terminal No.	Pin Assignment
--	01	06 --
TxD	02	07 --
RxD	03	08 --
--	04	09 --
GND	05	

RS-232: Female DB-9 Connector

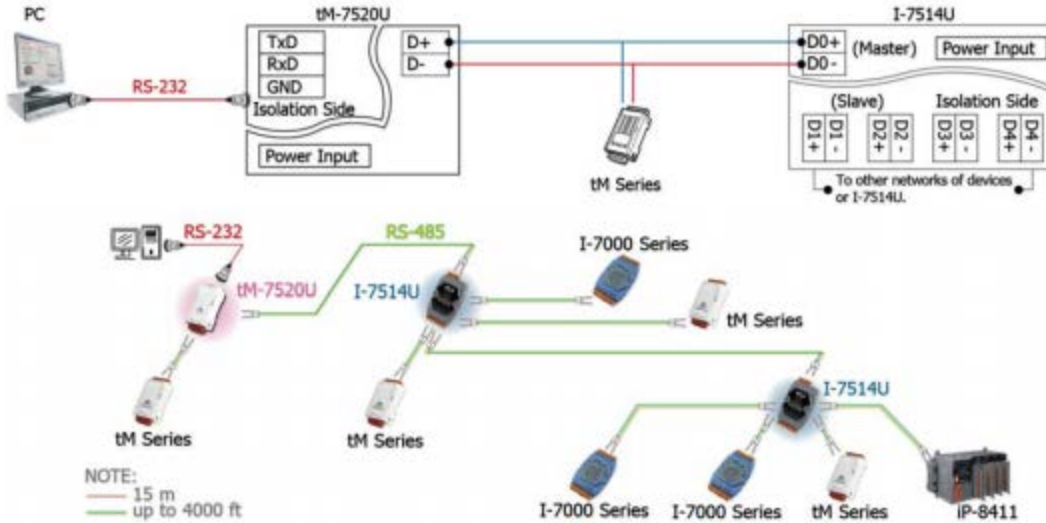




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3. Application



4. Baud Rate and Format Setting

Selecting the tM-7520U's Data Formats: Fixed baud rate mode

DSW1 controls the data format. Data can be 9, 10, 11 or 12 bits. The factory default is 10 bits: one start bit, eight data bits, no parity bit and one stop bit. When using the converter in combination with other I-7000 series modules, do not change the default setting as I-7000 series modules have a fixed data format of ten data bits.

The option of changing to 9, 11 or 12 bits is for use with other modules (other than I-7000 series modules) that have different data formats. Should you change the data format, be aware that you will have to change the data format settings on all the other modules in the network.

Data format settings (DSW1)		
Data Format	1	2
9 - Bit	ON	ON
10 - Bit	ON	OFF
11 - Bit	OFF	ON
12 - Bit	OFF	OFF

Baud Rate settings (RSW1)	
RSW1	Baud Rate
1	1200 bps
2	2400 bps
3	4800 bps
4	9600 bps
5	192000 bps
6	384000 bps
7	576000 bps
8	115200 bps
0	Self-Tuner (300 bps ~115200bps)

