

## **EARTH PEOPLE TECHNOLOGY**

### **MULTI-VOLT DUAL UART**

### **USB To Serial Adapter**

### **Data Sheet**



### **The Multi-Volt Dual UART**

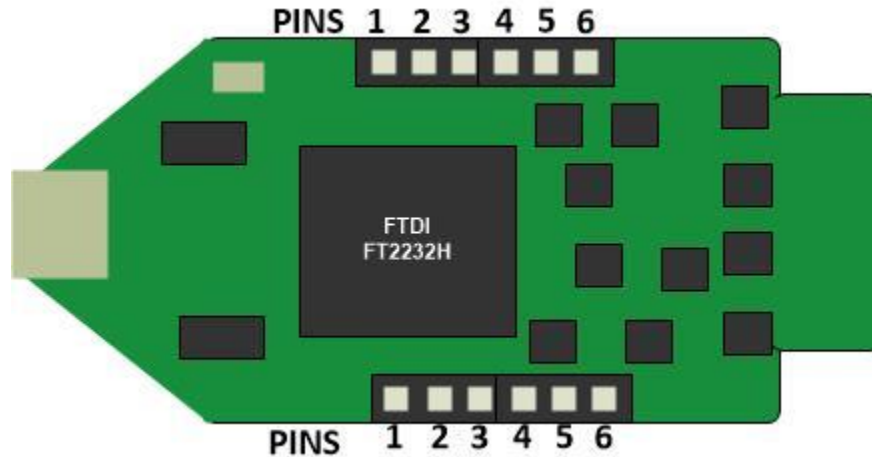
The Multi-Volt Dual UART is a USB To Serial Adapter Module that is compact in size and programs any Arduino. It's small size allows it to fit into bread board applications where other programmers are too big and bulky. It has many features that make it the perfect companion to the Arduino family.

The Multi-Volt Dual UART is based upon the FTDI FT2232H USB to Serial UART IC which handles all the USB signaling and protocols. Its user signal inputs and outputs can be selected between +1.2 Volt and +5 Volt. The Multi-Volt Dual UART supports RTS/CTS hardware

handshaking and is USB powered. The module supports data transfer rates from 300 baud to 3 Mbaud.

### Multi-Volt Dual UART Connection Pin Out

The electrical connections to the Multi-Volt Dual UART module are shown in the figure and table below.



Connector	Connector Pin	Name	Description
J4	1	VCCIO	Power from Multi-Volt Dual UART
	2	TXD	FT232H Channel A TXD Pin
	3	RXD	FT232H Channel A RXD Pin
	4	RTS	FT232H Channel A RTS Pin
	5	CTS	FT232H Channel A CTS Pin
	6	GND	0V Power Pin
J3	1	VCCIO	Power from Multi-Volt Dual UART
	2	TXD	FT232H Channel B TXD Pin
	3	RXD	FT232H Channel B RXD Pin
	4	RTS	FT232H Channel B RTS Pin
	5	CTS	FT232H Channel B CTS Pin
	6	GND	0V Power Pin



## Multi-Volt Dual UART Data Sheet USB To Serial

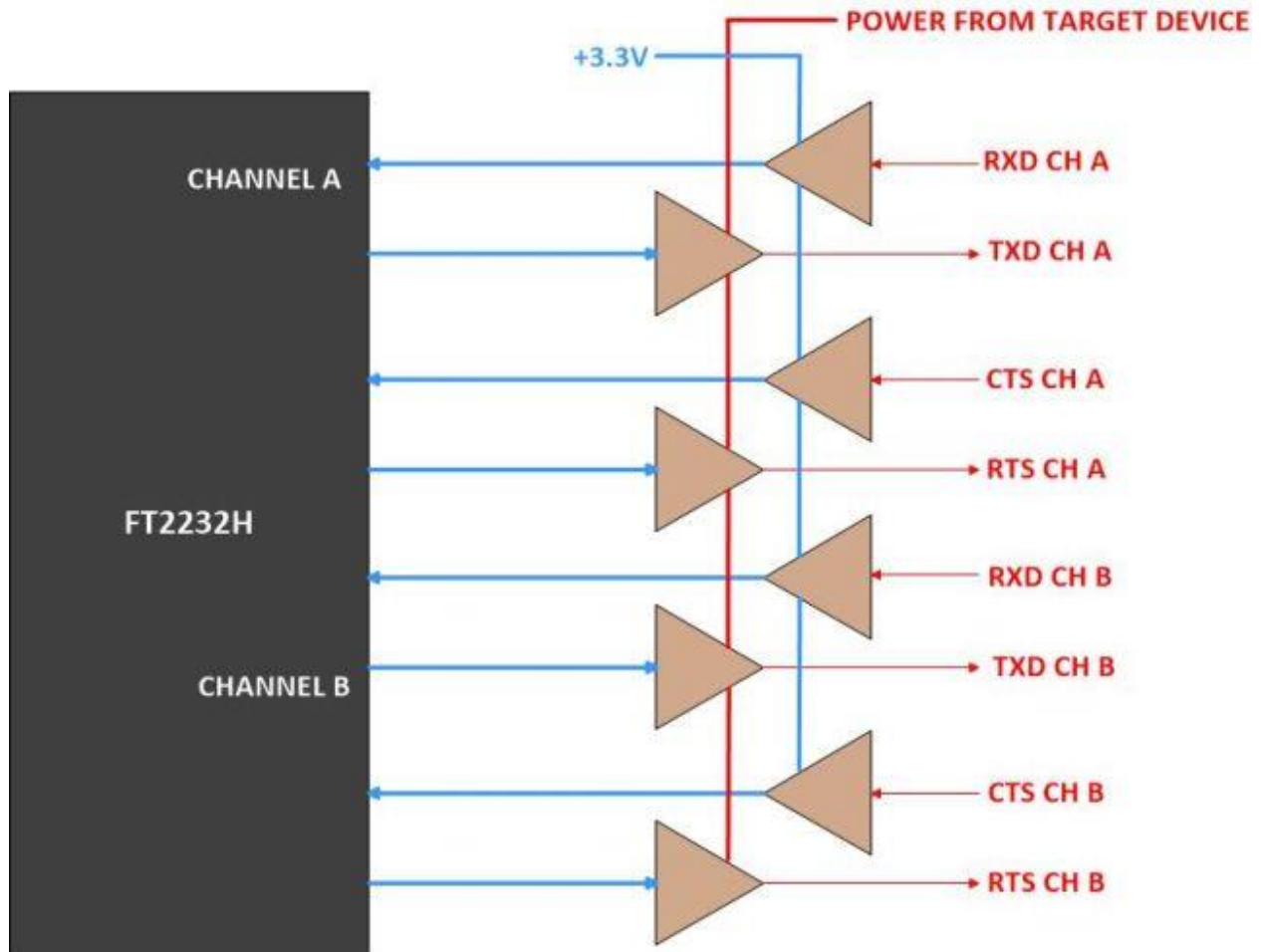
Table 1. 1X6 Pin Header

The output connector is a 1x6, 0.100 inch pitch stackable header. It is designed to accept header pins that are 0.040 inch square.

A 1x6 male to male header is included with the Multi-Volt Dual UART. This header mates with the 1x6 pin female socket and allows the user to connect it to a solderless breadboard or use discrete wires to wire the Multi-Volt Dual UART's pins to the correct pinout of the user's board.

### **Multi-Volt Dual UART Voltage Selection**

The Multi-Volt Dual UART This board is designed to communicate with any Input/Output from +1.2V to +5V. The way it works is the target device provides the output power and voltage for the EPT Multi-Volt Dual UART board. The target device powers the output buffers which provide the Input/Output from the FTDI FT2232H chip. The target device must provide 15mA at the selected voltage to properly power the buffer chips.



### Self Power

The Multi-Volt Dual UART has a built in +3.3V power supply and uses the USB power for self power. This power is used to supply the FT232H chip and internal buffers and logic. If the target device does not supply an I/O voltage and power, the Multi-Volt Dual UART board defaults to +3.3V for its I/O interface.