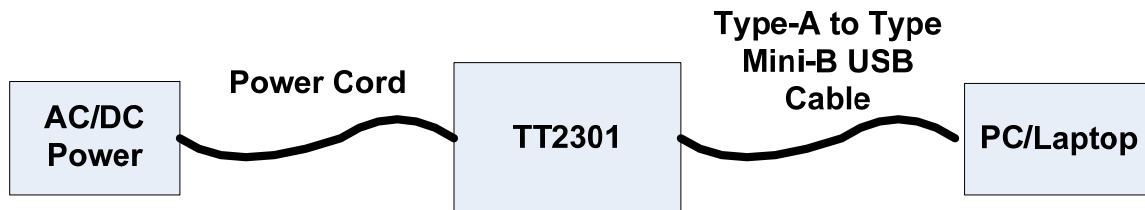# TT2301 Wireless USB DWA Users Manual
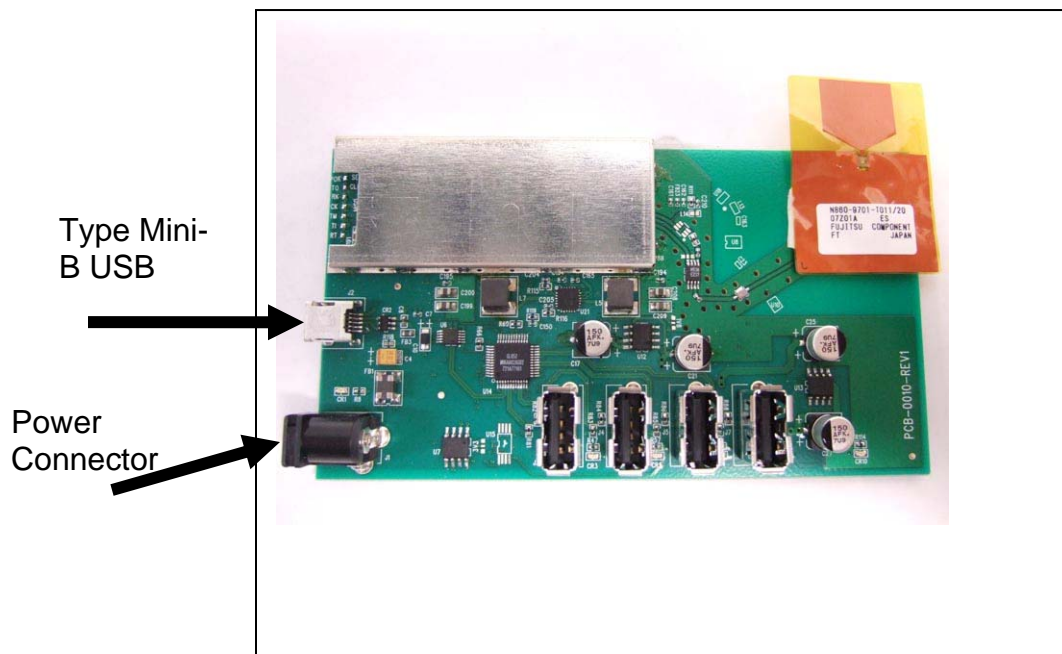
Revision:

1 Introduction

This document describes both the system operation of the TT2301 – a DWA (Device Wire Adapter) and the driver installation and use of the MAGOO control software.

2 System Description

The TT2301 is a WUSB Hub which has four Type-A USB plugs and one Mini-B USB plug. The TT2301 requires external AC/DC power supply. For the purpose of controlling the TT2301, you plug any PC/laptop into the Mini-B USB plug. Below is an interconnect diagram of the TT2301 and the PC/laptop.
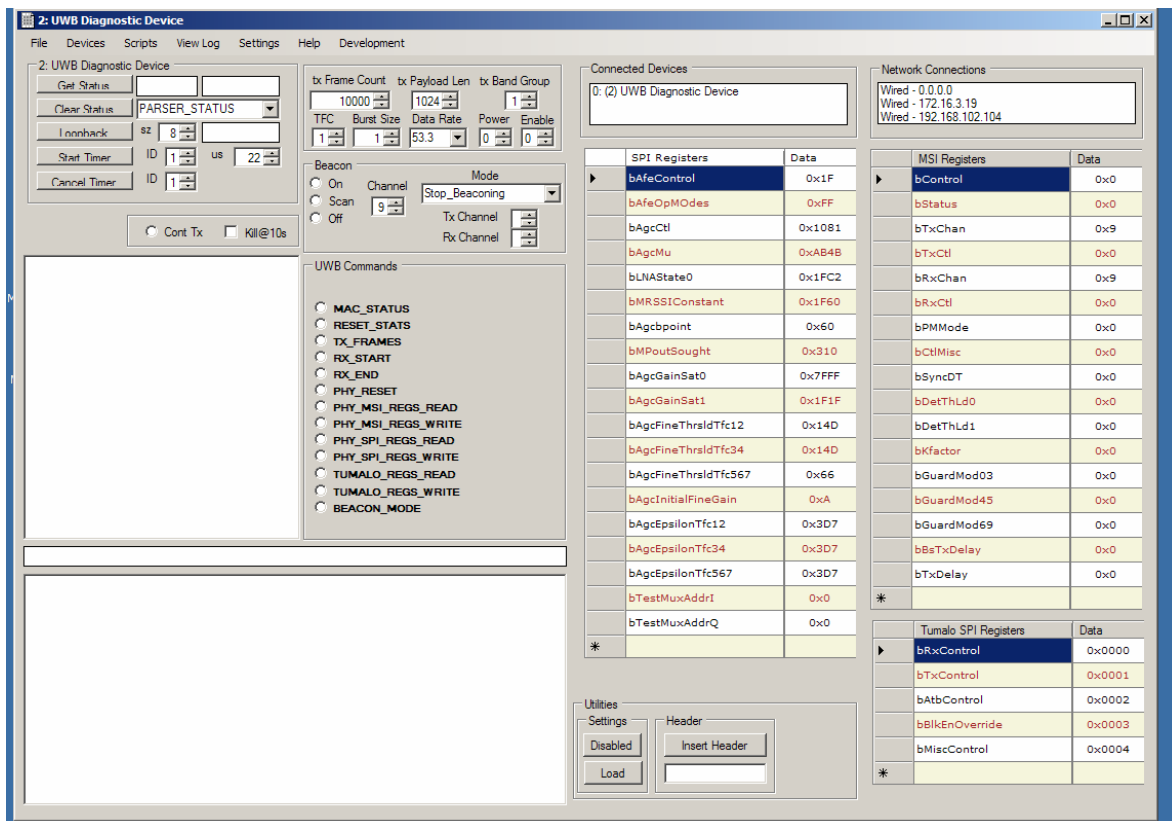

Interconnect Diagram

Connector Location on TT2301

3 Driver Installation

1. Copy the MAGOO folder to your computer's desktop

2. Power the TT2301 using the AC/DC power cube. Wait about 10 seconds for the TT2301 to boot.

3. Plug the TT2301 directly in a USB port of a laptop/PC using a Type-A to Type Mini-B USB Cable.

3. You will be prompted to install the driver for the newly found device. It will ask if you want Windows to search for the driver. Select "No, not at this time".

4. You will then be asked what you want the wizard to do. When prompted select "Install from a list or specific location (advanced)" to locate the driver.

5. You should then select "Search for the best driver in these locations". Check the "Include this location in your search" check box. Also, if the "Search removable media…" check box is checked, uncheck it.

6. Click the BROWSE button and browse for the MAGOO folder. Double click the "drivers" folder and click OK.

7. Windows will begin installing the driver. It will ask you with a warning box to either "STOP Installation" or "Continue Anyway". Click on the "Continue Anyway" button for each warning box.

8. If asked to install the file "CyUSB.sys" then navigate to the "drivers" folder and click OK. It should then complete the install.

4 MAGOO Control Software

1. Go to the folder on your desktop and double click the MAGOO.exe application. This will launch the MAGOO control software. You should see a menu similar to the one shown below.
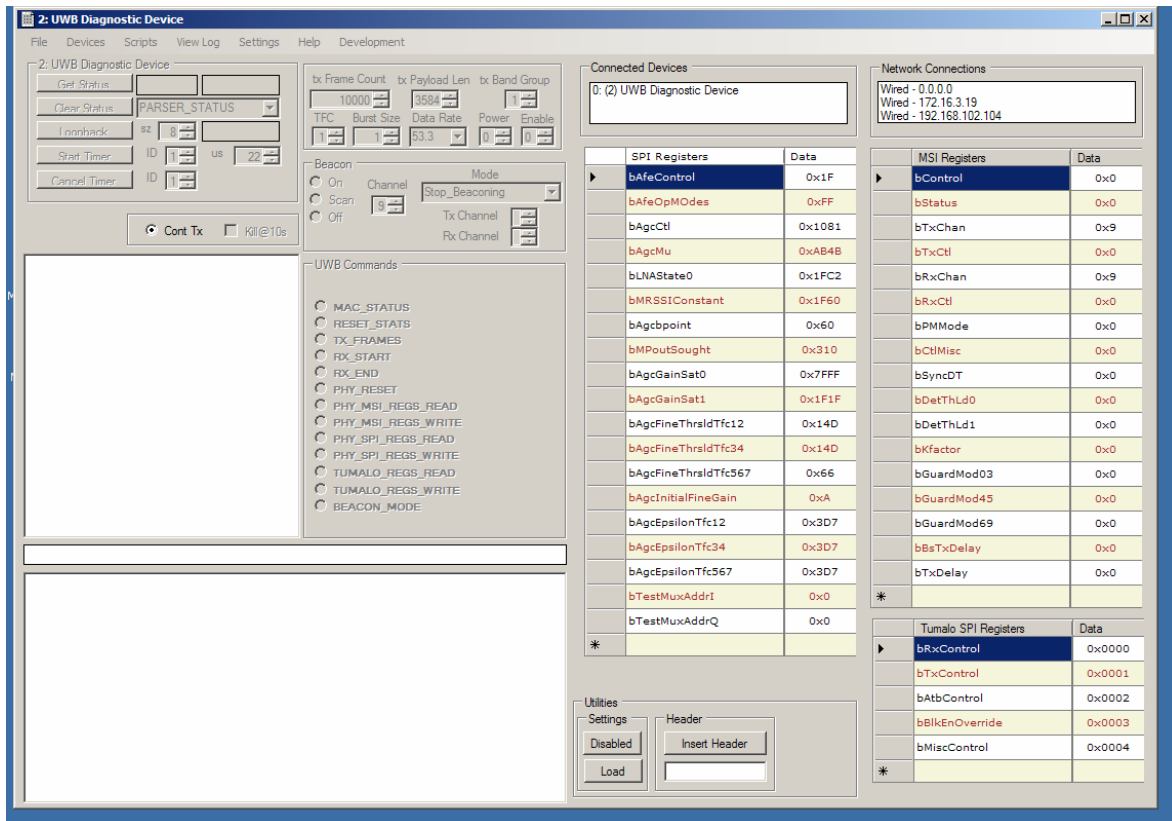

2. From this menu you should see one device in the "Connected Devices" box in the upper right hand corner when the TT2301 is plugged in the USB. The above figure includes an example of an active USB device in this box. When it is unplugged, the "Connected Devices" box should be blank.
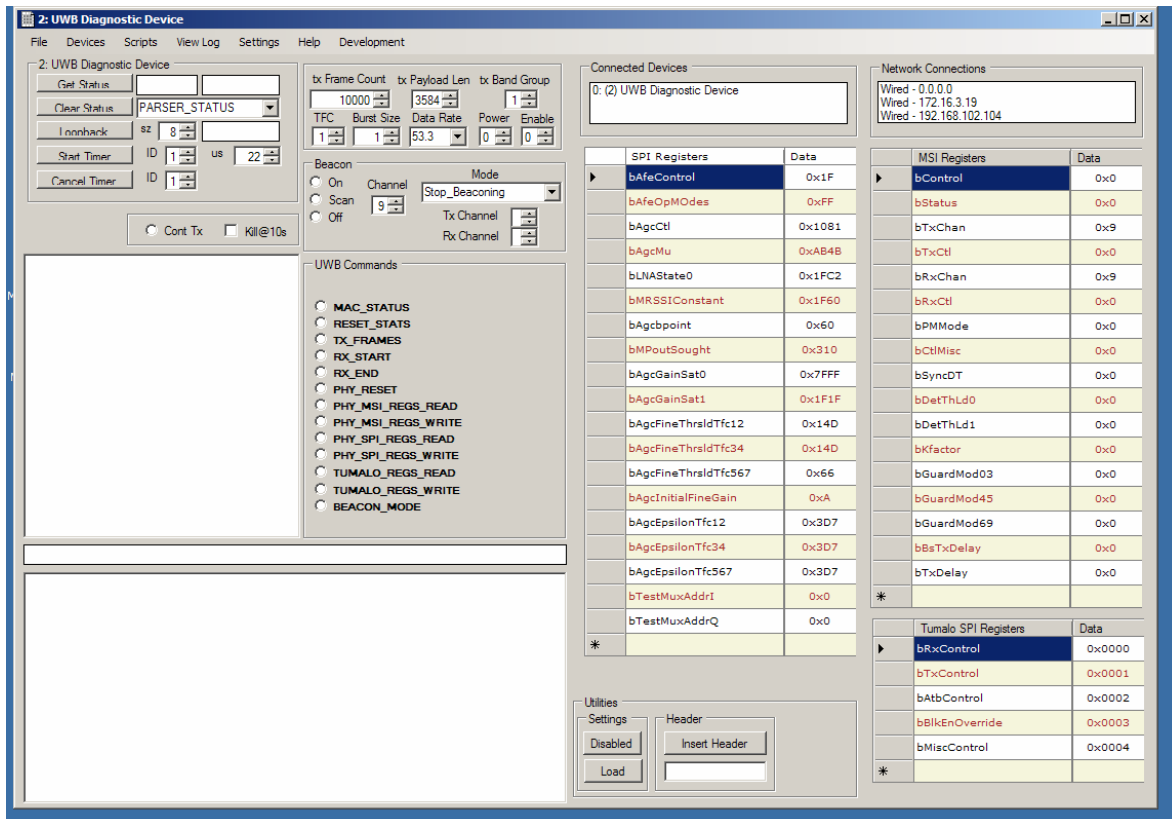
3. Manually set the "tx Payload Len" to 3584.

4. Set the TFC, Data Rate, and Power Level as appropriate. Do not adjust other settings.

5. To start transmitting, click the "Cont TX" button. You should see most of the menu grayed out as you cannot change parameters during Tx. Below is a screen shot when it is transmitting.

6. To stop transmitting, click the "Cont TX" button and the grayed out portions will become active and may be changed. Below is a screen shot when it is not transmitting.

5 Powering and Operation of the TT2301

Power Up Sequence

1. Start the MAGOO software on the PC/laptop.

2. Apply power to the TT2301.

3. Waited 10 seconds for the TT2301 to boot

4. Connect the Type-A end of the USB cable to the PC/laptop

5. Connect the Type Mini-B end of the USB cable to the Hub

6. On the MAGOO screen you should see the Hub enumerate. You are now ready to begin transmitting.

Power Down Sequence

1. From the MAGOO software on the PC/laptop stop transmitting as explained in Section 4.

2. Exit the MAGOO software

3. Unplug power to the TT2301.

4. Remove the USB cable from the TT2301.