



# USB Demo App

## Application Note



**SIERRA**  
WIRELESS®

41110799  
Rev 1

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Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices such as the Sierra Wireless modem are used in a normal manner with a well-constructed network, the Sierra Wireless modem should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. Sierra Wireless accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using the Sierra Wireless modem, or for failure of the Sierra Wireless modem to transmit or receive such data.

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Do not operate the Sierra Wireless modem in any aircraft, whether the aircraft is on the ground or in flight. In aircraft, the Sierra Wireless modem **MUST BE POWERED OFF**. When operating, the Sierra Wireless modem can transmit signals that could interfere with various onboard systems.

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*Note: Some airlines may permit the use of cellular phones while the aircraft is on the ground and the door is open. Sierra Wireless modems may be used at this time.*

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The driver or operator of any vehicle should not operate the Sierra Wireless modem while in control of a vehicle. Doing so will detract from the driver or operator's control and operation of that vehicle. In some states and provinces, operating such communications devices while in control of a vehicle is an offence.

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## Revision History

Revision number	Release date	Changes
1	March 22, 2017	Initial revision in SWI template

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# >> 1: Introduction

The USB Demo App is a 32-bit Windows application that gives you the ability to send commands via USB to Melody (5.7 RC4 onwards). This application note describes the main functionality of the tool and how to use it.

## >> 2: Installation

The tool has some prerequisites that need to be available on the Windows machine to operate properly. After unpacking the tool to the desired location, you will end up to the following set of files:

- redistrib (folder)
- USBDemoApp.exe (application)
- bc\_hid.dll

If this is the first time running the tool on Windows, installing the prerequisites is required for the application to work properly. The prerequisites are available in the redistrib folder, opening the redistrib folder, the following file can be found:

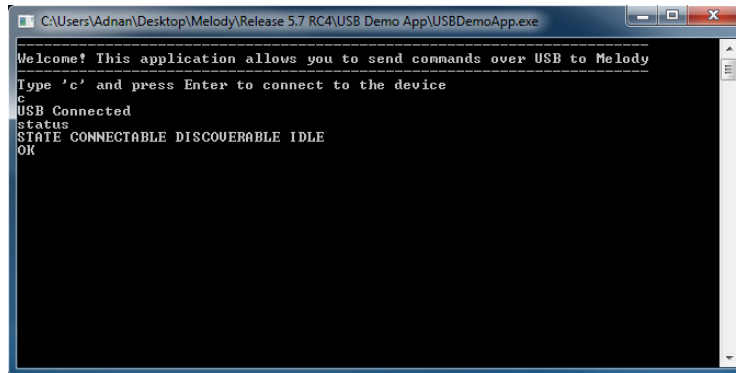
- vcredist\_x86.exe

Run the executables to install the required dependencies on the windows machine.

Once this step is finished, you can start the demo application by running USBDemoApp.exe.

## 3: Using the Demo Application

Run USBDemoApp. You should see a welcome message. Type 'c' and press Enter to connect, you will receive a confirmation (USB connected). Then you can write your command and press **Enter** to send it. Here is an example with the "Status" command:



```

CAUsers\Adnan\Desktop\Melody\Release 5.7 RC4\USB Demo App\USBDemoApp.exe
Welcome! This application allows you to send commands over USB to Melody
Type 'c' and press Enter to connect to the device
c
USB Connected
status
STATE CONNECTABLE DISCOVERABLE IDLE
OK
  
```

Figure 3-1: USB Demo App

If you cannot connect to your device or if no device can be found make sure that the USB cable is plugged.

To be able to send commands via USB, the parameter `USB_HOST` must be set to ON. By default it is OFF and commands are sent over UART. If `USB_HOST=OFF` use the *Set*, *Write*, and *Reset* commands:

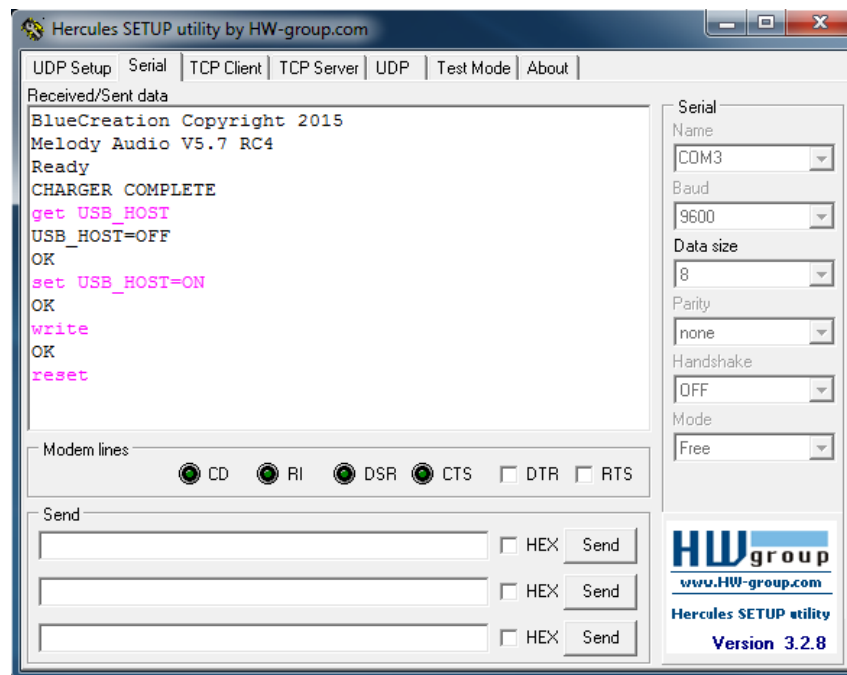


Figure 3-2: Commands to set `USB_HOST` to OFF (over UART)

Please note that you won't be able to send command over UART until you set USB\_HOST back to OFF.