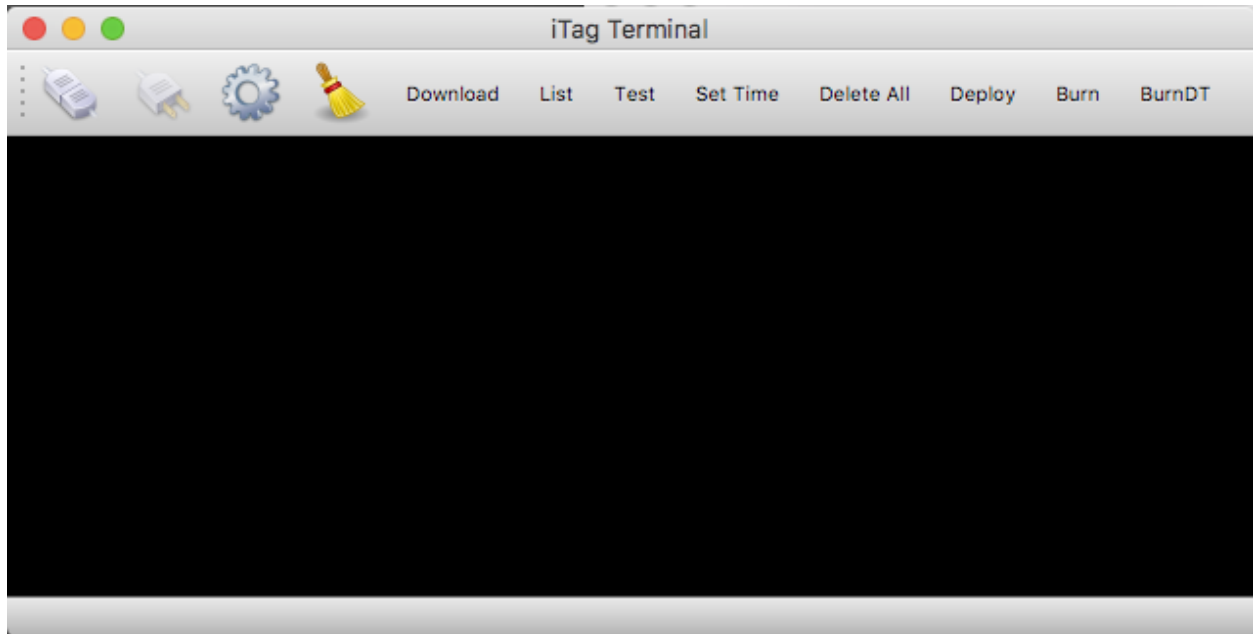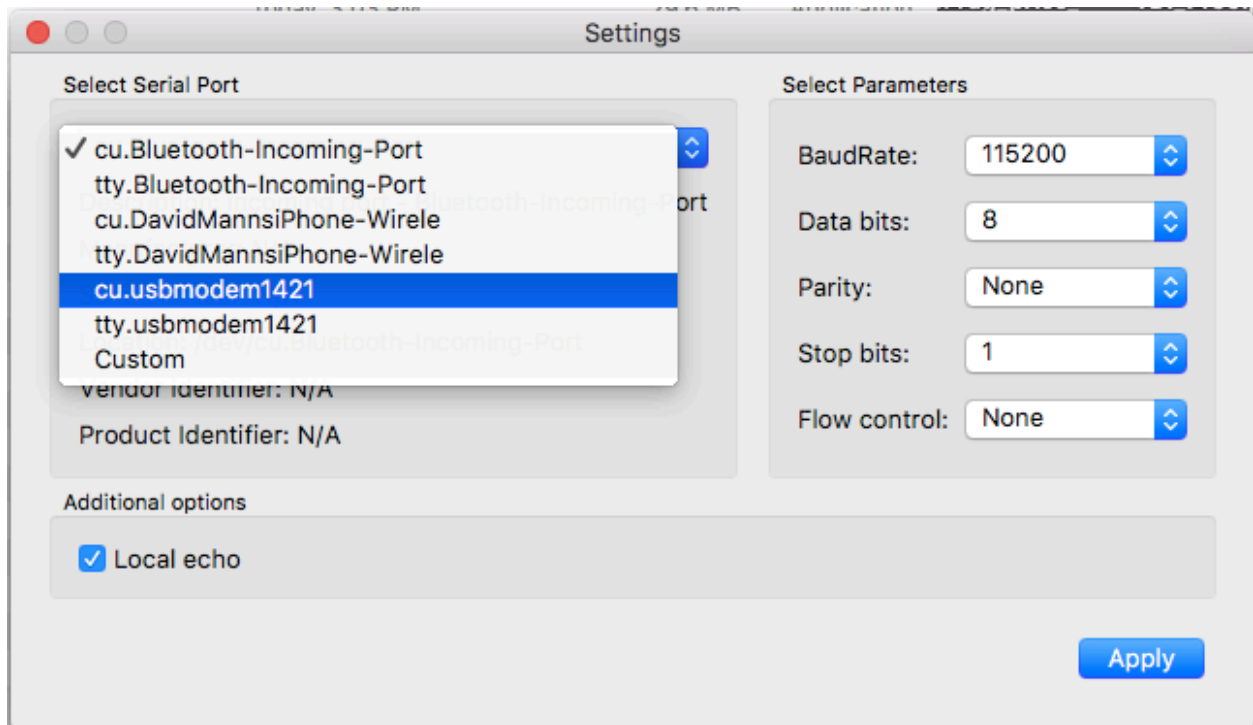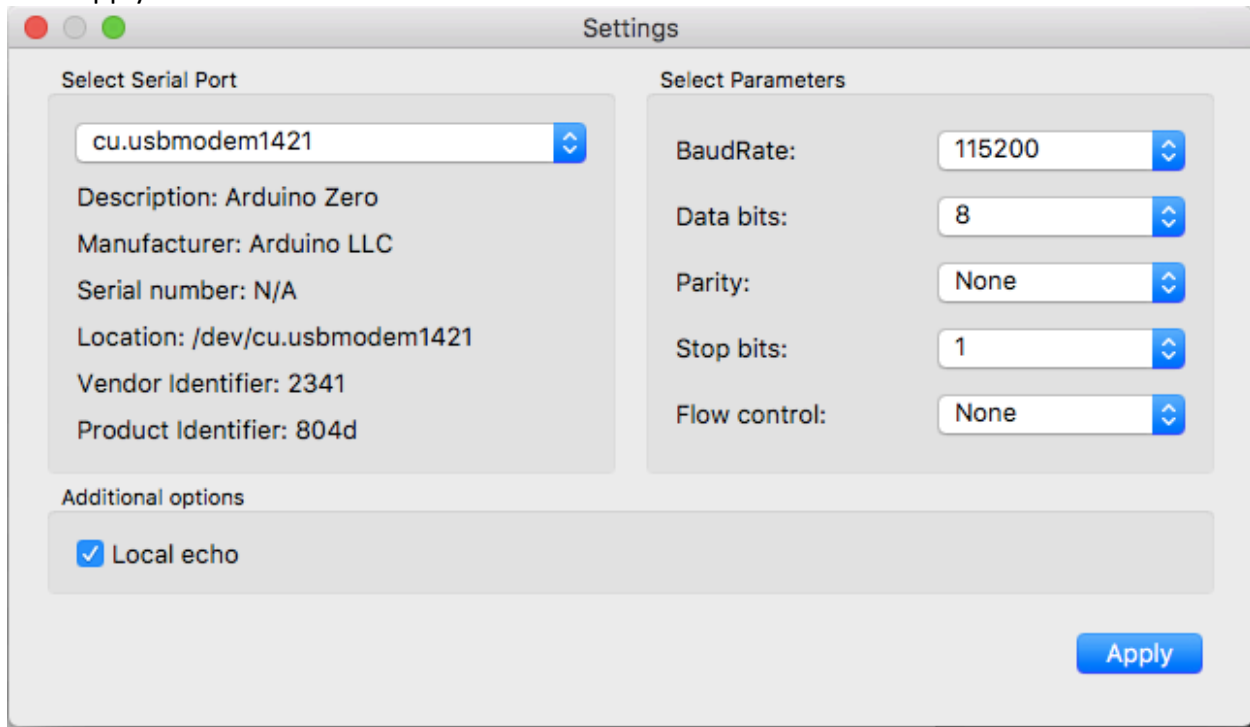# iTag Interface Software Mac
v 1.0 21 Feb 2017

Run iTag.app (on Mac)

1. Plug in USB cable into iTag
2. Click on Settings (Gear) icon, and select item that is named something like cu.usbmodemxxxx

It should show Arduino Zero under Description.
Do not change any other setting.
Click Apply

3. Click Connect to Serial Port icon on left

4. The tag is configured by click on action names on the menu bar

Download: Downloads all files to directory with ID of tag
List: List files on card
Test: Test sensors and show output to screen
Set Time: Set time to computer time
Delete All: Delete all files on card (should be done prior to a new deployment). Must press twice to delete files.
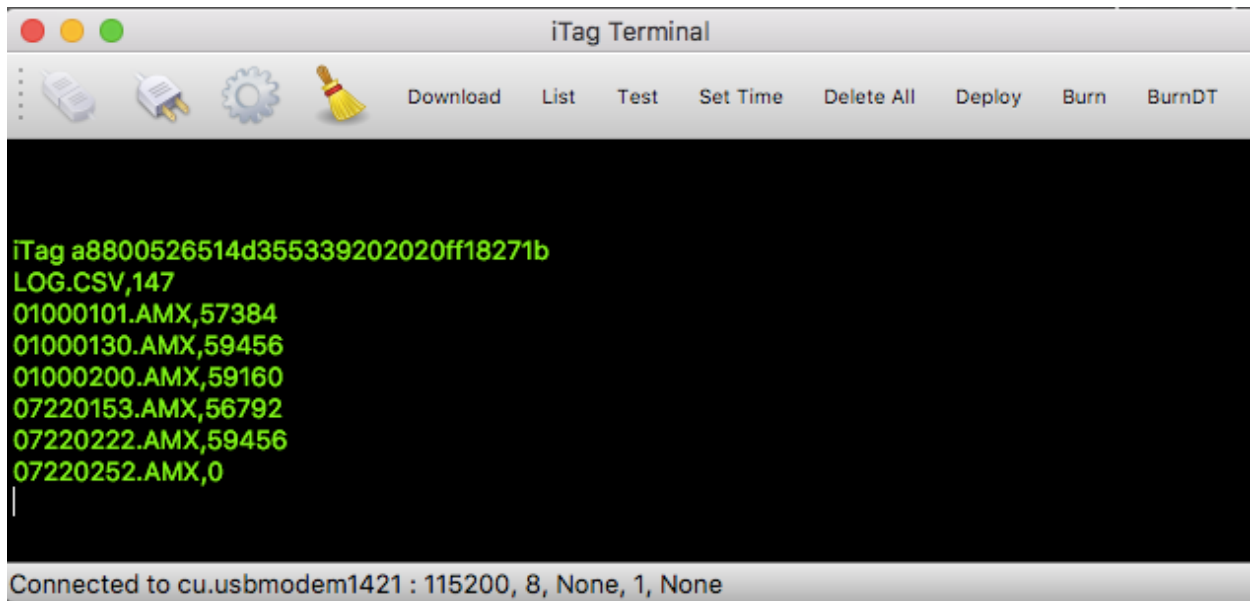**Deploy**: Start the tag recording.
Burn: Set burn to trigger after a desired number of minutes
BurnDT: Set burn to trigger at a specific datetime given in UTC following format: YYMMDDHHMMSS
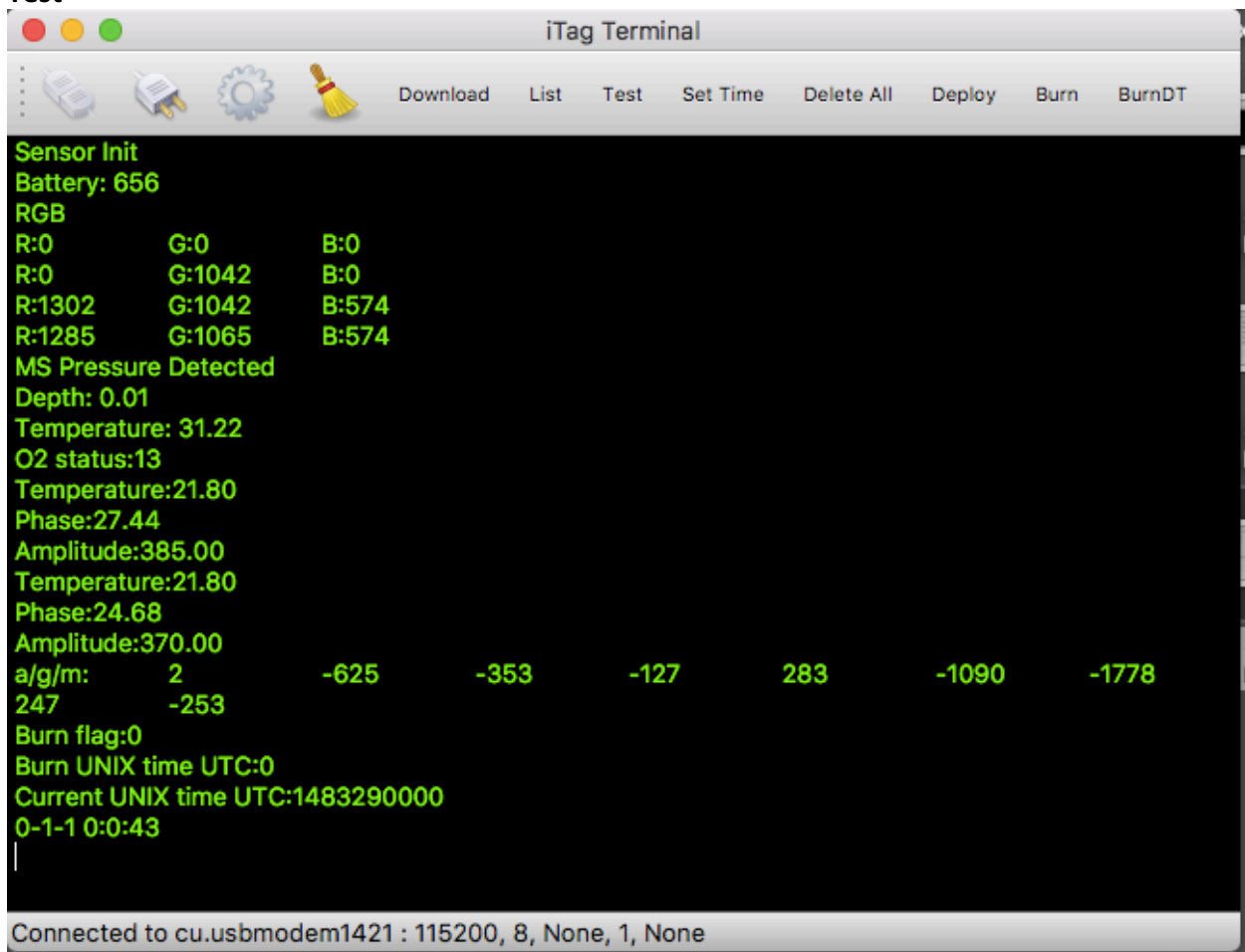
List
First line: iTag serial number
Following lines: filename and number of bytes

iTag Terminal

Download List Test Set Time Delete All Deploy Burn BurnDT

```
iTag a8800526514d355339202020ff18271b
LOG.CSV,147
01000101.AMX,57384
01000130.AMX,59456
01000200.AMX,59160
07220153.AMX,56792
07220222.AMX,59456
07220252.AMX,0
```

Connected to cu.usbmodem1421 : 115200, 8, None, 1, None

Test

iTag Terminal

Download List Test Set Time Delete All Deploy Burn BurnDT

```
Sensor Init
Battery: 656
RGB
R:0          G:0          B:0
R:0          G:1042       B:0
R:1302       G:1042       B:574
R:1285       G:1065       B:574
MS Pressure Detected
Depth: 0.01
Temperature: 31.22
O2 status:13
Temperature:21.80
Phase:27.44
Amplitude:385.00
Temperature:21.80
Phase:24.68
Amplitude:370.00
a/g/m:       2           -625      -353      -127      283       -1090     -1778
247          -253
Burn flag:0
Burn UNIX time UTC:0
Current UNIX time UTC:1483290000
0-1-1 0:0:43
```

Connected to cu.usbmodem1421 : 115200, 8, None, 1, None

Typical Scenario
Starting Tag
1. Press Deploy to start recording. The sensor test will show as well as whether there is a burn event configured and the current date and time on the tag.
2. Disconnect from USB. Green LED should flash for 1 minute and then go out.

Stopping Tag
1. Use magnet to temporarily switch tag off by moving magnet to within 1 cm of magnetic switch. Green LED will illuminate constantly if there is any battery power left.
2. Connect to USB and iTag configuration software.
3. Download data

Troubleshooting

Can't connect: Let tag charge for a few minutes. Switch off with magnet momentarily. Try to connect again.