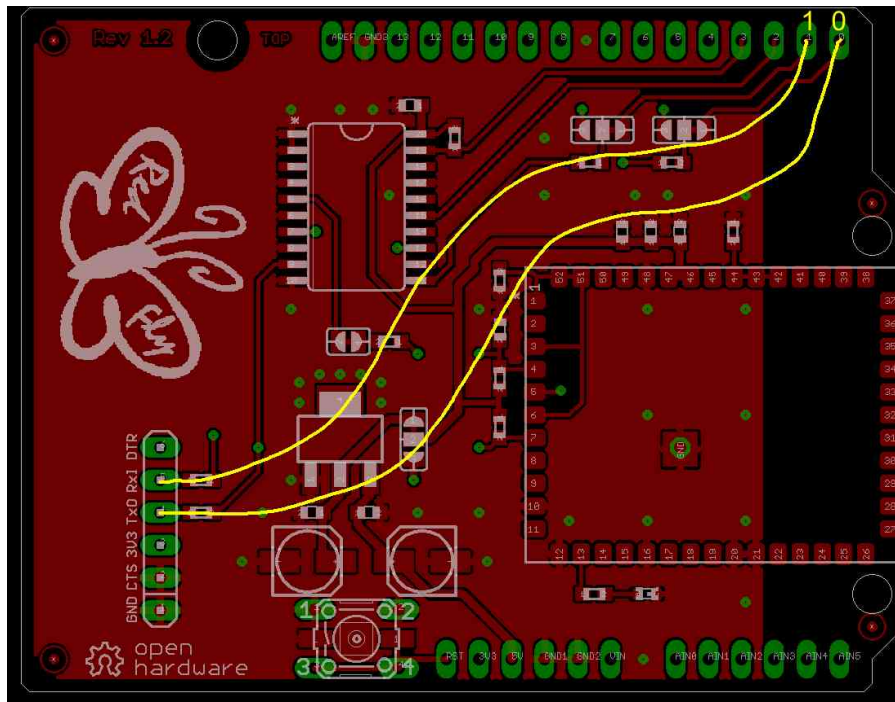# How to update the RedFly Firmware?

1. Load the *FWupdate* Sketch into the Arduino Board.

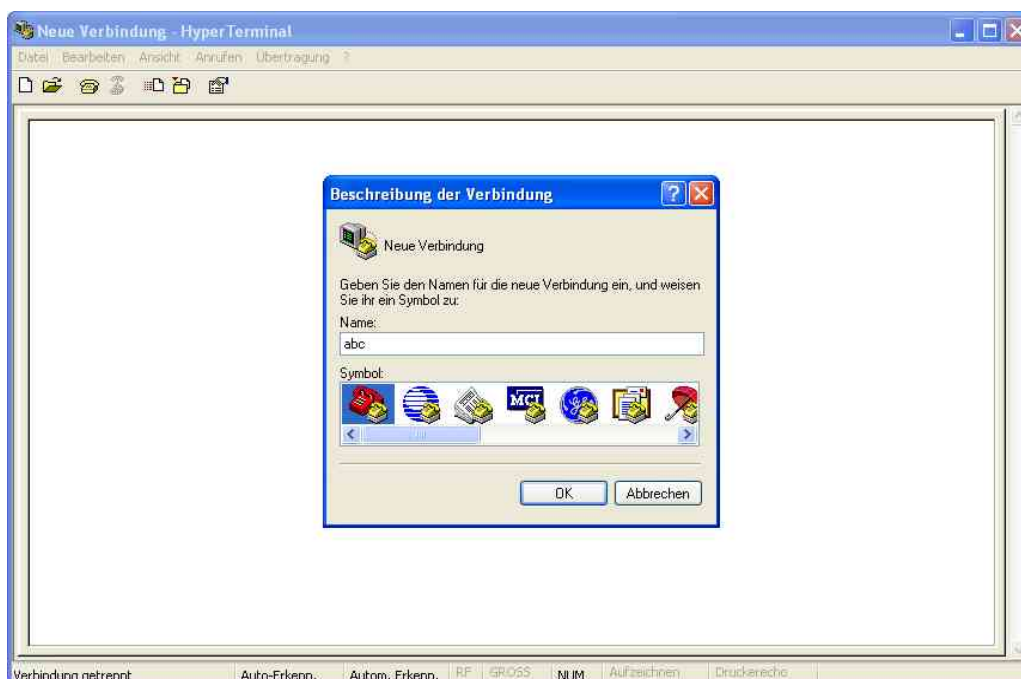2. Connect a 3V3 FTDI Basic-Breakout to the *FTDI-3V3* connector on the RedFly.

   Or you can also use an Arduino with FTDI chipset * for the update.
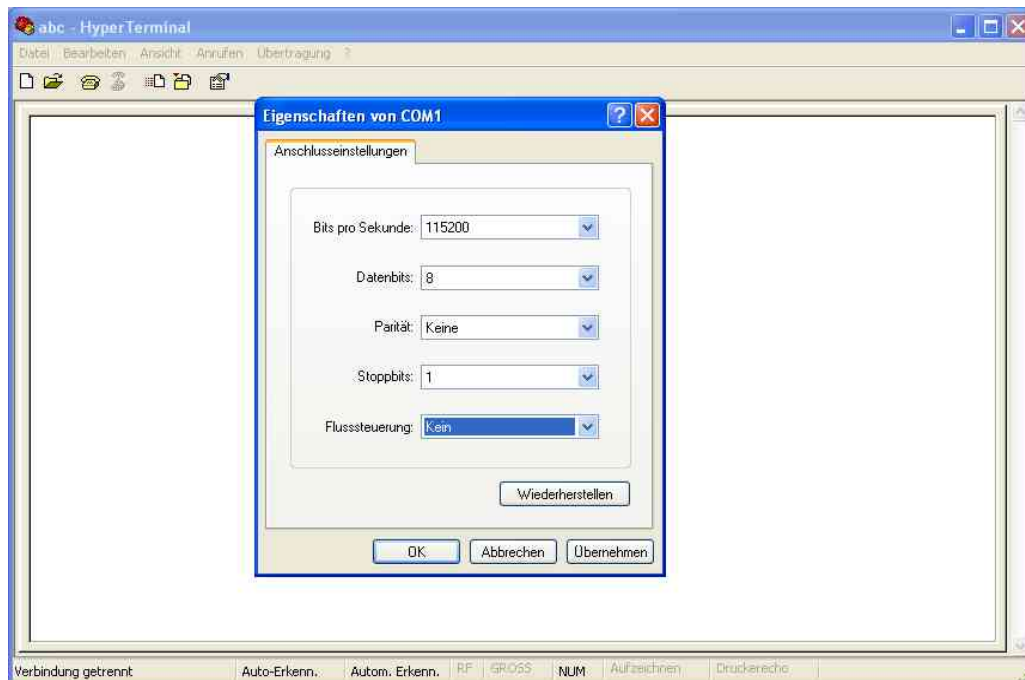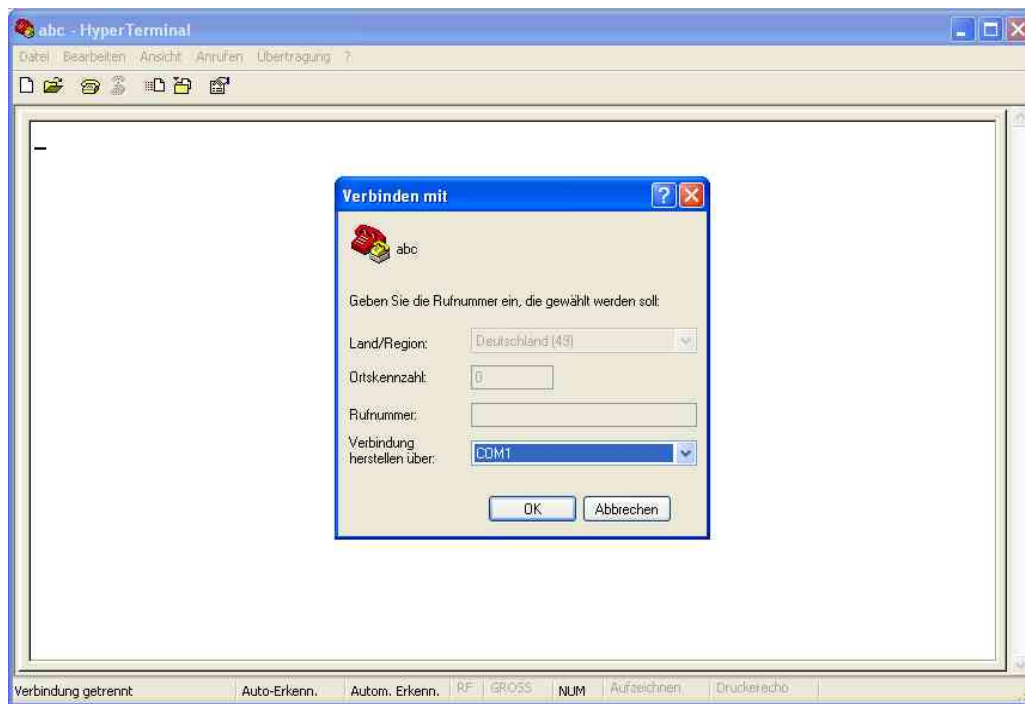   In this case connect *pin 0* to *FTDI-3V3 pin 4* (TxO) and *pin 1* to *FTDI-3V3 pin 5* (RxI):



   * The baud rate error on the ATmega8U2 is very high and so there can be problems.

3. Run Windows Hyper Terminal: **115200 baud, 8N1, no handshake**

4. Power cycle the Arduino+RedFly and make sure that on the RedFly no LED is on. If a LED is on then power cycle again.

5. Start connection on the serial port and wait about 20 seconds. Then the module starts with the default settings.

6. On the firmware upgrade question press **y**.

```
WELCOME TO REDPINE SIGNALS

Firmware upgrade (y/n)y
```
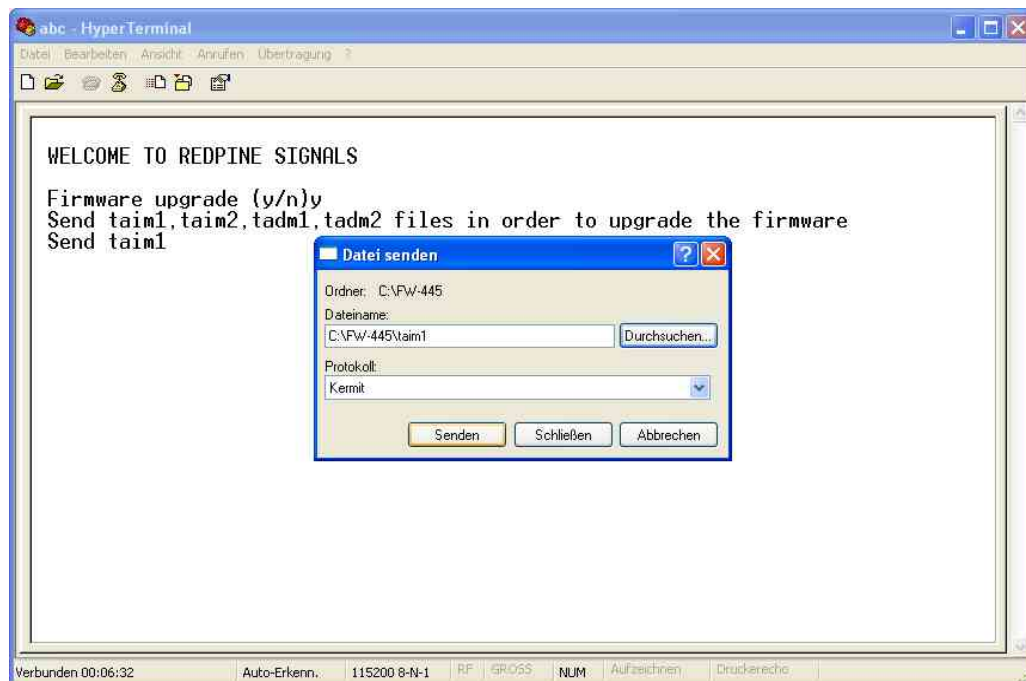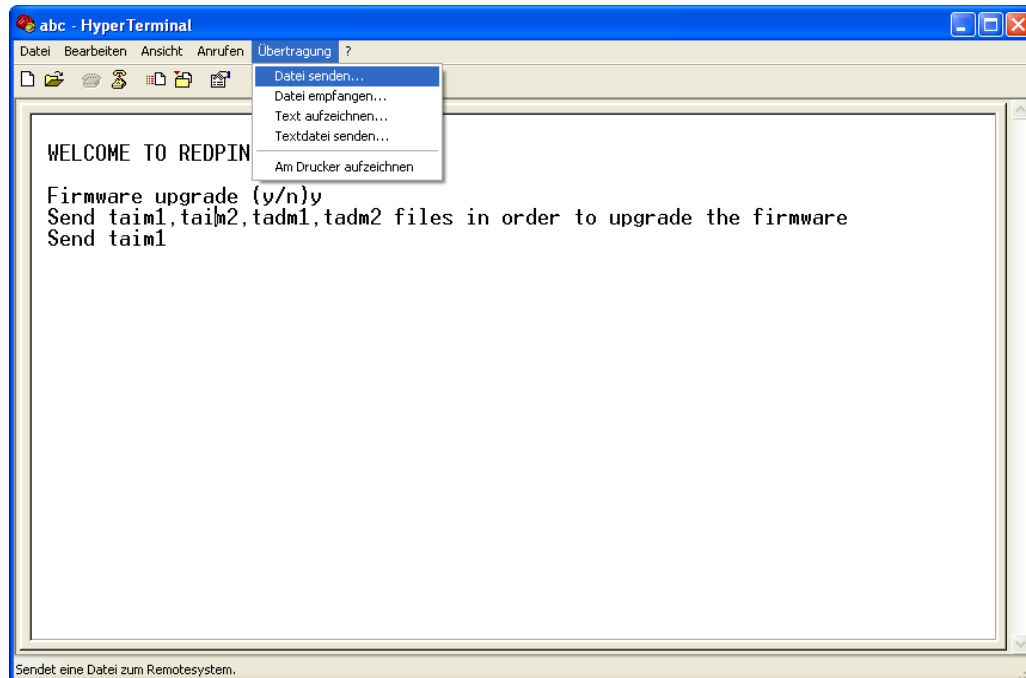
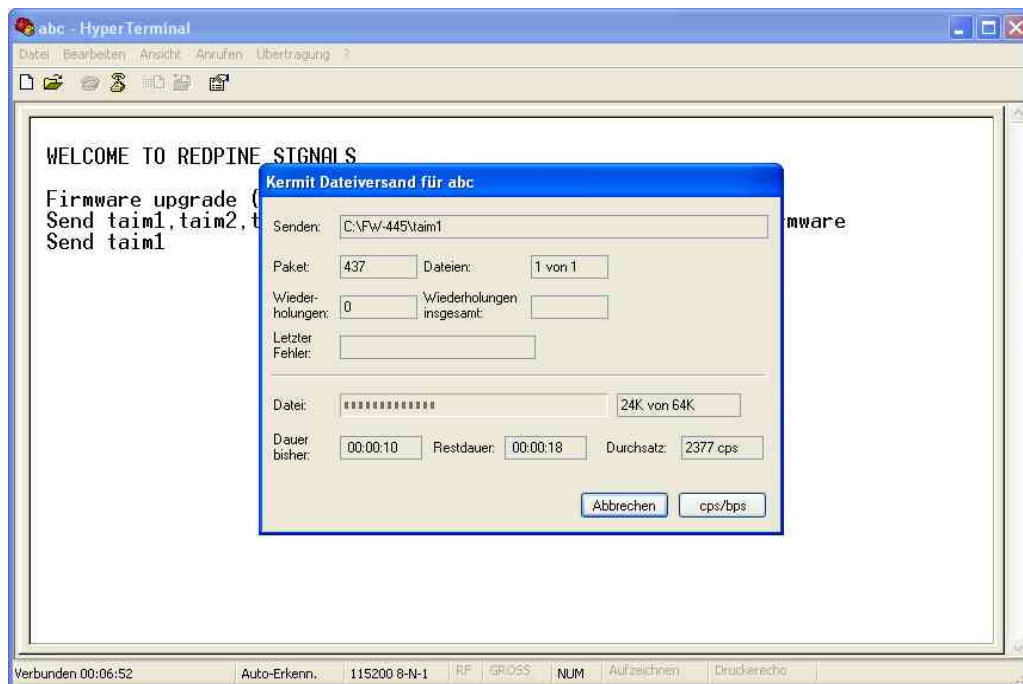7. Send the respected file when the prompt *Send xxx* appears and use the Kermit protocol.

WELCOME TO REDPINE SIGNALS

Firmware upgrade (y/n)y

Send taim1,taim2,tadm1,tadm2 files in order to upgrade the firmware

Send taim1

WELCOME TO REDPINE SIGNALS

Firmware upgrade (y/n)y

Send taim1,taim2,tadm1,tadm2 files in order to upgrade the firmware

Send taim1

Send taim2

Send tadm1

Send tadm2

8.  Power cycle the Arduino+RedFly after the update is completed.

WELCOME TO REDPINE SIGNALS

Firmware upgrade (y/n)y

Send taim1,taim2,tadm1,tadm2 files in order to upgrade the firmware

Send taim1

Send taim2

Send tadm1

Send tadm2

Firmware Upgradation completed

## Update with cutecom and kermit

Alternatively it's also possible to do the firmware update with cutecom and kermit.
In this case run kermit with following settings.

```
set xm li on
set line /dev/ttyUSB0
set speed 115200
set modem type none
set flow-control none
set handshake none
connect
```

(Thanks to Jesse Madsen.)