Hardware notes

ARM-USB-TINY-H

Chip datasheet: http://www.ftdichip.com/Support/Documents/DataSheets/ICs/DS_FT2232H.pdf

Connector pinout

```
      9 5 1
 ----^^----
/oooooooooo\
\oooooooooo/
 ----------
       6 2
```

Low voltage UART mode

Pin functions

- 1, 2: Vcc (connected)
- 4, 6 and the rest of the low row: GND (connected)
- 5: RX (I)
- 7: CTS# (I)
- 9: TX (O)
- 11: RI# (I)
- 13: RTS# (O)
- 17: DTR# (O): my modification

Driver

- http://ftdi-usb-sio.sourceforge.net/
- modprobe ftdi_sio vendor=0x15ba product=0x002a
- echo -n “15ba 002a” > /sys/bus/usb-serial/drivers/ftdi_sio/new_id

Xtensa JTAG

Pin functions

- 1: Vcc
- 3: TRST#
- 4: GND
- 5: TDI
- 7: TMS

- 9: TCK
- 13: TDO
- 15: SRST# (doesn't work)

topology.xml controller line

```
<controller id='Controller0' module='ft2232' probe='flyswatter' vid='0x15ba'
pid='0x002a' usbser='OLVGHYS?' speed='10MHz'/>
```