

# Hardware notes

## ARM-USB-TINY-H

Chip datasheet: [http://www.ftdichip.com/Support/Documents/DataSheets/ICs/DS\\_FT2232H.pdf](http://www.ftdichip.com/Support/Documents/DataSheets/ICs/DS_FT2232H.pdf)

### Connector pinout

```
      9 5 1
  ----^^----
/0000000000\
\0000000000/
  -----
      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='0LVGHYS?' speed='10MHz' />
```

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