Benjamin Henrion Web Space

Menu

Blog

Resume

Whois

Filez

Github

Twitter

Projects

Beaglebone

Isl3893

Asus WL500GP

Fonera

USR2450

Alix 1c

Dlink DSL G604T

Conceptronic C54BRS4

Conceptronic C54BRS4v2

Linksys WAP54Gv2

Linksys WAP54Gv3

Linksys WRT54Gv22

Linksys WRT54GSv20xb

HP nc6000

MultiMesh

Amontec JTAG key

Wiggler JTAG adaptor

Simple JTAG adaptor

OpenVZ Network Simulator

JTAG Finder

TetraPak Slotted WaveGuide Antenna

AMD SoC sc400

Kendin KS8695

EeePc 1000H

Ubiquity Bullet

Bashrc

Vimrc

OpenWRT and UML

Howto tunnel when email port 25 is blocked by your **ISP**

iSight camera

Western Digital WG5000g032

Sun Fire v100

Belgacom Box 1

Belgacom Box 2

Belgacom Box 3

Wyse WT3235LE **Philips SNA6600**

Arduino as a serial adaptor

FTDI FT232R 3V3 Cable

Arduino Mini USB adaptor

Use the Arduino as a serial adaptor

Introduction

Warning: there are 2 solutions to use the FT232R in a standalone mode in 3.3v (serial port on most routers):

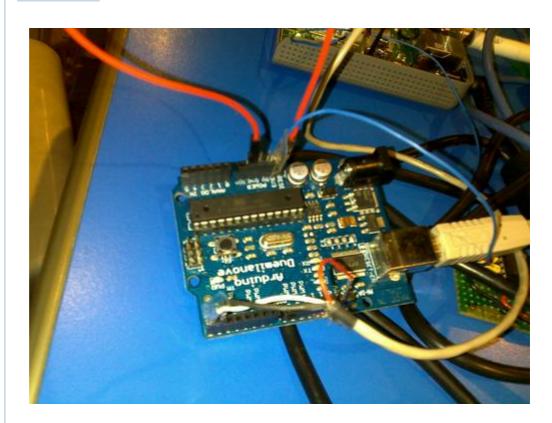
- 1. Use a hacked USB cable that takes the 5V and GND and put it into the external power connector of the arduino; from there the 5V will power the board in 3.3v, including the FTDI chip and the ATMega chip
- 2. Use a MAX232 level shifter chip which converts TTL signals from 5V to 3.3v

I was searching on the internet howto use the Arduino as a serial adaptor for accessing the console of OpenWRT routers, such as la fonera. The Arduino has an FTDI FT232RL chip that makes the USB-serial interface between the PC and the ATmega328 chip. This FT232RL can be used in standalone mode if the ATmega chip is removed, or if it is put in RESET mode, thus not operating.

Here are the details how to use such arduino as an adaptor:

- Connect the TX pin of the arduino to the RX pin of your router
- Connect the RX pin of the arduino to the TX pin of your router
- Connect the GND pin of the arduino to the GND pin of your router
- Connect the RESET pin of the arduino to the GND pin of the arduino, in order to avoid the usage of the ATmega328 chip (alternatively you can totally remove the ATmega, but it is easier to just connect a wire between the 2 pins)
- If your router requires 3.3v voltage, then connect the 3.3V pin of the Arduino to your 3.3v pin of your router (check if it is required to connected to the Fonera).
- You can then have a console on your router using minicom or screen (example for la fonera: screen /dev/ttyUSB0 9600 8N1)

Pictures



Sitecom WL153
Asus WL520GC
FTDI 2232HQ Mini module
MiniX Android TV

Olimex IMX233 Olinuxino micro

Pictures

SwedenGnesta080820

Bertogne070121

Eupaco1

Lapierre130SL

Freiburg050927

SaillansGap2006

Rooftop

WaterFight050706

TetraPakAntenna

SlottedWaveguide

Utils

Manager

RecentChanges

All pages

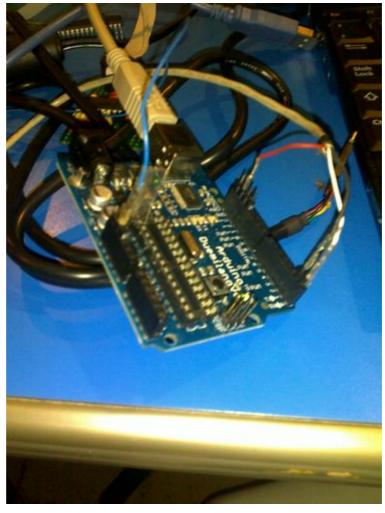
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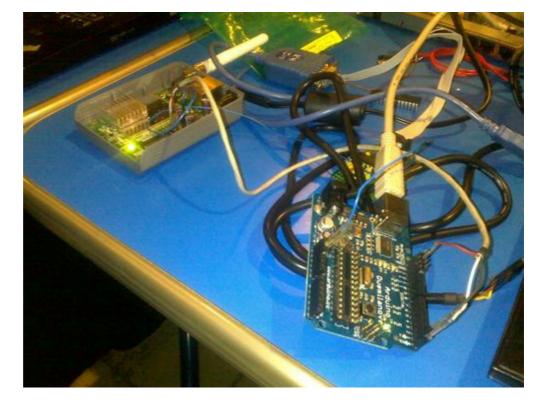
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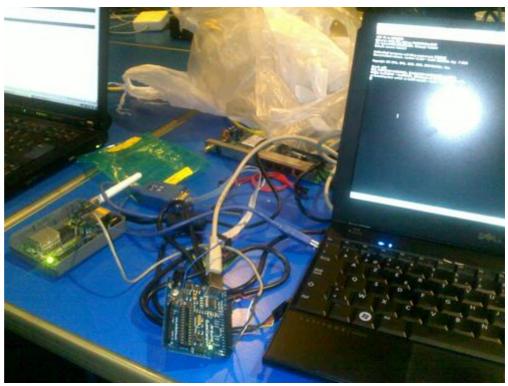


















Links

- http://echodittolabs.org/hacking-la-fonera-2
 http://code31.lahaag.org/pipermail/code31/2009-November/000662.html
 http://www.zoobab.com/arduino-duemilanove-in-3-3v