DoogieB   (Login DoogieB)
YF

Chrony PC Interface Cable for USB

June 5 2011 at 2:49 PM

I realize this isn't the "hackaday" board, but I made a PC interface cable for my Shooting Chrony that I thought a few people on old Yeller might have some interest. The board plugs right into a USB port and you can probably make one for $5.

While you can still buy a PC adapter from Shooting Chrony, it's somewhat expensive and most people will still have to buy a USB-Serial adapter (more $$$). Luckily, TTL-level serial ports are still used on tons of devices. I found a nice board that does it all: TTL conversion and serial port support right from a USB port.

First, check out this site:

http://www.noplabs.com/index.html

They have lots of info on hacking a Shooting Chrony.

The actual device I used is available here:

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=280671057784

or search for "USB2.0 to RS232 TTL Converter Module PL2303".

Next you need a 3.5mm (1/8") stereo jack with cable which are commonly used with headphones.

The jack will have 3 cables that need to be connected to the board. The tip of the jack goes to RX, the middle goes to TX and the base goes to GND. If you are using the same board I mentioned above, you NEED to REMOVE the jumper.

It looks like this when done:
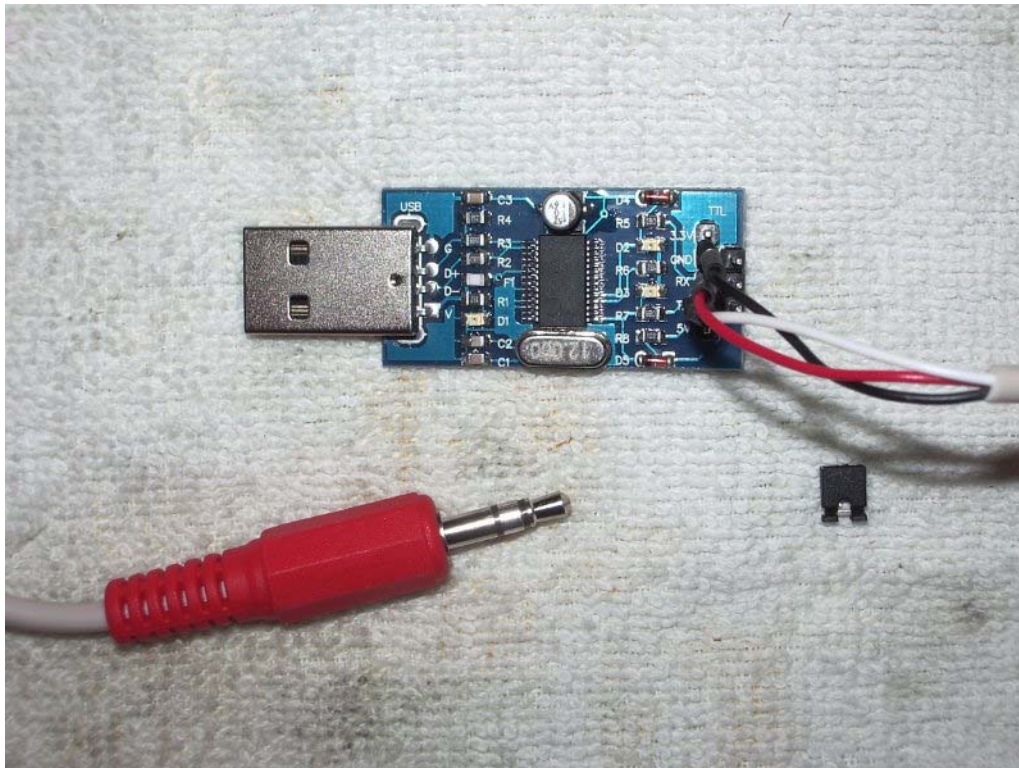
For my uses, I'm just going to apply some clear heat shrink and call it done.

The board has drivers available for all major OSes. When you plug it into a USB port you will get a new device which is the serial port. On Linux it will be /dev/ttyUSB0, with Windows probably COM5. You can use some of the chrony software available or use a COM program to capture data and control the chrony manually (see nop link above).

```
COM5 - PuTTY                                              _ ☐ X

Shooting Chrony, V6.03i,25/DEC/1999,1F
-01-,   31543V,   383.76Vf
-02-,   31059V,   389.74Vf
-03-,   31941V,   378.97Vf
-04-,   31203V,   387.94Vf
-05-,   32310V,   374.65Vf
-06-,   31622V,   382.80Vf
-07-,   32311V,   374.63Vf
-08-,   31512V,   384.13Vf
-09-,   31712V,   381.71Vf
-10-,   31094V,   389.30Vf
-Sn-,    0001nf
-Lo-,   374.63Vf
-Hi-,   389.74Vf
-Av-,   382.76Vf
-ES-,    15.11Vf
-Sd-,    05.47Vf
-__ --[]-
-11-,   31435V,   385.07Vf
-12-,   30951V,   391.10Vf
-13-,   30797V,   393.05Vf
-14-,   30895V,   391.81Vf
-15-,   31177V,   388.26Vf
```

While it's only 3 wires, obviously you need a touch of electronics experience. Don't let the smoke out of your chrony or computer. 😜

Respond to this message

Author	**Reply**	

Lon
(Login bigbore)
YFOT

You have no idea how long I've been looking for this...   June 5 2011, 3:05 PM

I've seen other hacks but nothing this cheap, simple and clean.

Great, project # 317. 😜

N.R.A.
LIFE MEMBER

This message has been edited by bigbore on Jun 5, 2011 3:07 PM

Respond to this message

Lon
(Login bigbore)
YFOT

Can you get the data into this freeware?   June 5 2011, 3:42 PM

https://www.competitionelectronics.com/index.php?
page=shop.product_details&flypage=flypage.tpl&product_id=21&category_id=7&vmcchk=1&option=com_virtuemart&Itemid=79

Download is halfway down the page on the right.

❌ [linked image]

N.R.A.
LIFE MEMBER
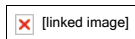
Respond to this message

zoned
(Login zoned)
YC

This is an excellent post!   June 5 2011, 4:19 PM

I may have to make me one of those. Thank you so much for the valuable info and photos you provided. This could really come in
handy for quite a few folks.

This message has been edited by zoned on Aug 7, 2011 3:37 PM

Respond to this message

Lon
(Login bigbore)
YFOT

I'm in...   June 5 2011, 5:12 PM

just ordered one.

Respond to this message

je
(Login jengineer)
YF

Update   June 5 2011, 10:38 PM

us when you use it on the Pro Chrony... As for shrink wrap this is the perfect size for a Leggo housing..

je

Respond to this message

tedd
(Login tedd)
YF

How about for the ProChrono Digital - a PC interface or remote control?   June 5 2011, 10:09 PM

Anyone know of a cheap and simple DIY version?

Thanks

Tedd

Respond to this message

DoogieB
(Login DoogieB)
YF

For Shooting Chrony models only...   June 5 2011, 11:06 PM

Let me be perfectly clear on this, this cable is for hardware by Shooting Chrony: F1, Alpha, Beta & Gamma.

For software support, you have to find something that already supports a Shooting Chrony chronograph.

I doubt that anything from ProChrono will work with Shooting Chrony.

Respond to this message

Lon
(Login bigbore)
YFOT

For $5 I'll try it.   June 5 2011, 11:16 PM

I can fumble with the code, I've done some programming MANY years ago.

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