

simpleusb.conf

Submitted by tisawyer on Sat, 04/13/2013 - 09:10

Chan_simpleusb (aka simpleusb) is a lower CPU overhead alternative to chan_usbradio (USBradio). Use when COR and CTCSS are provided by the radio rather than DSP of chan_usbradio. Recommended when using CPUs of less than 1.2 Ghz clock speed or when squelch and CTCSS functions from the radio are desired.

```
; SimpleUSB configuration
;
[general]

[usb]

;pp3=out0

eeprom=0

hdwtype=0           ; Leave this set to 0 for USB sound fobs modified using
                    ; the instructions from usbfov.pdf. Use a setting of
                    ; 1 is for Dingotel/Sph interfaces.

rxboost=1           ; 0 = 20db attenuator inserted, 1= 20db attenuator removed
                    ; Set to 1 for additonal gain if using a low-level receiver
output

carrierfrom=usbinvert ; no,usb,usbinvert
                    ; no - no carrier detection at all
                    ; usb - from the COR line on the modified USB sound fob
                    ; usbinvert - from the inverted COR line on the modified
USB sound fob

ctcssfrom=no        ; no,usb,usbinvert
                    ; no - CTCSS decoding, system will be carrier squelch
                    ; usb - CTCSS decoding using input from USB FOB
                    ; usbinvert - from the inverted CTCSS line on the modified
USB sound fob

txmixa=voice        ; Left channel output: no,voice,tone,composite,auxvoice
                    ; no - Do not output anything
                    ; voice - output voice only

txmixb=no           ; Right channel output: no,voice,tone,composite, auxvoice
                    ; See txmixa above.

invertptt=0         ; Invert PTT 0 = ground to transmit, 1 = open to transmit
                    ; This is the collector lead of the 2n4401 on the modified
                    ; usb sound fob.
                    ; please refer to the howto for the procedure to do this.

duplex=1            ; Full Duplex

;plfilter=yes       ; enable PL filter

;deemphasis=yes     ; enable de-emphasis (input from discriminator)
```

Audio levels are set with simpleusb-tune-menu which will save it's settings in simpleusb_tune_usb.conf.

SimpleUSB supports parallel printer port I/O. See <http://ohnosec.org/drupal/node/177>

If switching (by hand, non portal config) from USBradio to SimpleUSB do the following:

- copy /usr/src/astsrc/configs/simpleusb/simpleusb.conf to /etc/asterisk/
- delete or rename /etc/asterisk/usbradio*
- delete /etc/init.d/usbradio
- touch /etc/init.d/simpleusb
- edit /etc/asterisk/rpt.conf rxchannel=SimpleUSB/usb
- edit /etc/asterisk/simpleusb.conf as desired
- svcfg if Limey
- reboot
- set levels with simpleusb-tune-menu
- svcfg if Limey