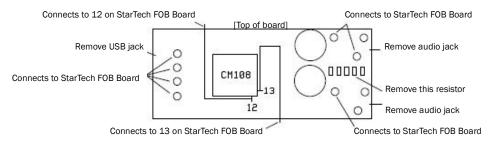
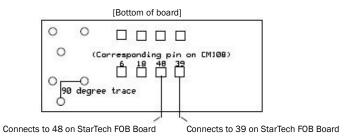
Converting and Installing StarTech FOB to Interface Board for use on AllStar Server Node by Chuck Kelsey, WB2EDV

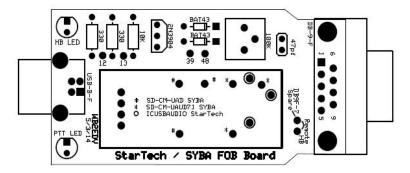
- Proceed with modifications and construction at your own risk -



Use 30-ga. Kynar wire to connect to pins 12 & 13 and route it under pins of CM108 to hold in place for soldering. Use bare solid wire to connect 4 USB pads and 3 audio pads to pads on the StarTech FOB Board, stand board off slightly.



Use insulated wire to make the connections to the two pads on the bottom of the board.



<u>PARTS LIST</u>: (Mouser parts listed for convenience)

1	USB-B Jack	Mouser 649-61729-1011BLF
1	DB-9 Female	Mouser 152-3409
1	100K Trimmer	Mouser 652-3362P-1-104LF
1	2N3904 Transistor	Mouser 2N3904TFR
2	BAT43 Diode	Mouser 511-BAT43
1	47pF Capacitor	Mouser 140-100N5-470J-RC
1	330 ohm Resistor	Mouser 660-CF1/4C331J
1	10K Pocietor	Maucar 201 10K PC

110K ResistorMouser 291-10K-RC1LED RedMouser 696-SSL-LX5093ID1251LED GreenMouser 696-SSL-LX5093PGD1Sound FOBNewegg StarTech ICUSBAUDIO1Circuit BoardWB2EDV StarTech/Syba FOB Board

1 Cover PC Slot Expansion cover w/DB-9 cutout (optional)

Plastic Case Mouser 616-73094-510-000 (optional)

DB-9 PINOUT:

- 1 Encode sub-audible tone to TX ¹
- 2 Audio to TX
- 3 COS logic from RX $^{\rm 2}$
- 4 CTCSS logic from decoder 2
- 5 PTT to TX
- 6 Discriminator audio from RX
- 7 Spare (could use to remote heartbeat (HB) LED
- 8 Ground
- 9 Ground
- ¹Not used if transmitter encoder is utilized.
- ² Not used when utilizing DSP.

Option - LED's can be mounted on PC slot cover. HB LED (green) blinks when device recognized by PC. PTT LED (red) on when transmitter is keyed.