



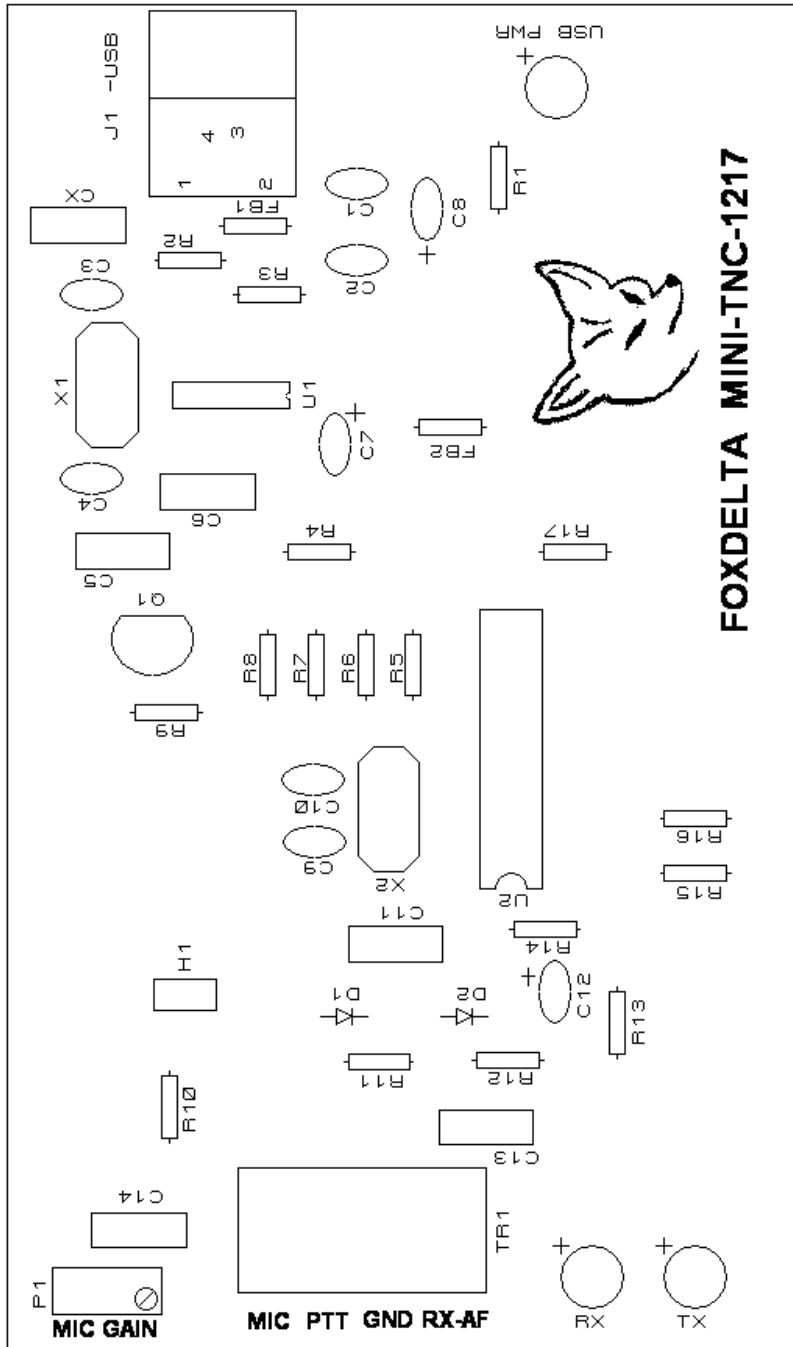
Fox Delta

Amateur Radio Projects & Kits

Mini-TNC-1217

Kit Parts List and Schematic: [Mini-TNC USB](#) - A 1200-Baud Packet TNC

Silk Snap of the Mini-TNC Board: Rev1217 USB



Mini TNC REV 1217 Parts List:

Qty	ID	Details
1	U2	PIC16F88, Pre-Programmed With Firmware V1.09
1	U1	CH340G
1	PCB	Mini-TNC Double Sided PTH Board Rev1217
1	Q1	BC547B, PTT Switch
3	LED	3mm: RX, TX & Power
1	X1	Crystal 12MHZ HC49US
1	X2	Crystal 20MHZ HC49US
1	P1	Preset Bourns 10K, PCB/RA
1	H1	2pin header/Shorting Pin
1	J1	USB Connector
1	TR1	4PIN Screw Terminal (2+2)
2	FB1, 2	Ferrite Bead Inductors
2	D1, D2	1N4148 Diodes
1	DIP18	IC Socket for U2
1	Case	Powder Coated Metal Case
Qty	ID	Details
3	C8, 12, 7	1uf 35V Tantalum
4	CX, 13, 6, 14	100nf Poly
2	C5, 11,	1nf Poly
6	C3, 4, 9, 10, 1, 2	22pf Ceramic
5	R8, 17, 1, 13, 12	1K
2	R7, 10	2K
2	R2, 3	22 ohms
3	R4, 14, 11	10K
1	R6	3.9K
1	R5	8.2K
2	R9, 16	100K
1	R15	470 Ohms

Notes:

1. **U1: CH340G is SMT device and its supplied pre-soldered on board.**
2. **P1 is right angle bourns preset. It can be adjusted easily when board is housed in metal case.**
3. **H1: Use a supplied shorting pin to activate PTT thru MIC press. (Kenwood type Radios)**
4. **Set Receiver audio carefully for good detected packets.**
5. **MIC audio to Radio is set by P1**

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Please visit <http://www.foxdelta.com> for more information on this project.