



Schematic & Parts List for FoxDigi: A 1200 Baud APRS / Packet Digipeater

FoxDigi Parts List:

Qty	ID	Details
1	U2	PIC16F88, Pre-Programmed With suitable Firmware
1	U4	MAX232 or Equiv. RS232 Driver
1	U3	78L05
1	U1	MCP6023, Audio Filter/Amplifier
1	Q1	BC547B, PTT Switch
1	GPS-En	2pin Header with Shorting pin
1	J1	D9 Male Right Angle Connector
1	J2	D9 Female Right Angle Connector
3	LED	3mm: RX, TX & Power
1	X1	Crystal 20MHZ HC49US
1	RV1	Preset Bourns 10K
1	D1	1N4007
2	D2, 3	1N4148
1	DIP8	IC Socket for U1
1	DIP18	IC Socket for U2
1	DIP16	IC Socket for U4

Qty	ID	Details
6	C11, 12, 13, 14, 15, CX1	1uf 35V Tantalum
2	C16, 17	10uf 35V Tantalum
5	C3, 4, 5, 9, CX	100nf Poly
2	C1, 2	10nf Poly
2	C10, 6	1nf Poly
2	C7, 8	27pf Ceramic
19		
2	R1, 8,	100 ohms 1/4W
1e	R2/R2A	2 X 4.7K = 9.4k
1e	R3/R3A	10K + 15K = 25k
1e	R4/R4A	12K + 6.8K = 18.8k
1	R10	470
3	R6, 9, 21	10K
0	R7	10M (Not Used in this project)
2	R11, 19	100k
5	R12, 13, 14, 18, 5	1K
1	R15	8.2k
1	R16	3.9K
2	R17, 20	2K
24		

Schematic of the FoxDigi:

