

Kit building notes:

Order of mounting parts on the circuit board:

- 1) Mount size 1206 SMT capacitors and ferrite filters on the bottom of the circuit board except for SMT capacitors near the five-pin SMT voltage regulator and the FIN1002 if the FIN1002 is used.
- 2) Mount five-pin SMT voltage regulator, U3, on bottom of board
Exercise care in mounting U3 on the circuit board. Make sure U3 leads are well centered on their pads before tacking part in place by careful soldering of one lead. Apply heat to pin to reposition U3 and when properly positioned carefully solder the other leads. Use solder wick to remove excess solder or solder bridges between pins.
- 3) Mount U5, FIN1002, on bottom of board with careful soldering as with U3. (U5 not used if a CMOS Si570 is used on the board.)
- 4) Mount remainder of SMT capacitors.
- 5) Mount U4, Si570, on bottom of board with careful soldering as with U3.
- 6) Mount all SOICs on bottom of the board. (If an IC in the kit fits a location then it is right for that location.)
- 7) Voltage regulator U1 is mounted to top of board with a 4-40 machine screw, #4 star lock washer, and hex nut attaching the tab of U1 to the board.
- 8) 9-pin and 3-pin sockets and 2-pin header mounted in J1, J2 and J3 locations. Exercise care to make sure J1, J2 and J3 are mounted perpendicular to the circuit board.
- 9) Resistors R1 through R22 on top of board with R8, R9, R10, R11, R12, R13, R14, R15, R18, R20, R21 and R22 mounted flat to board. All other resistors mounted in a hairpin fashion. (R8 not used when CMOS Si570 is used on the board.)
- 10) Ceramic capacitors C1, C4, C5, C11, C14, C19, C20, C24, C26, C27, C29 and C30 mounted on top of the board.
- 11) Socket for U2 mounted on top of board.
- 12) Mount D1, D2 and D3 on top of the board in a hairpin fashion with the diode body above each round pad.
- 13) Connect a shorting wire in the CMOS jumper location if a CMOS Si570 is to be used on the board.
- 14) Connect a shorting wire to ground /RXEN to enable receiver QSD circuit operation

SoftRock Projects

SoftRock Lite+USB Xtall v9.0

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Page 3 of 3