

Kit building notes:

Order of mounting parts on the circuit board:

- 1) 1206 size 0.1 uF SMT capacitors C2 at pin 1 pad of U1.
1206 size 0.1uF SMT capacitors C15, C21, C22, C23 adjacent to U7.
1206 size 0.1uF SMT capacitors C25, C26 under R8 and C11 connected to pin 8 of U3.
1206 size 0.01uF SMT capacitors fill remaining eight SMT locations.
- 2) Five-pin SMT voltage regulator, U2, on bottom of board
Exercise care in mounting U2 on the circuit board.
Make sure U2 leads are well centered on their pads
before tacking part in place by careful soldering of
one lead. Apply heat to pin to reposition U2 and when properly positioned
carefully solder the other leads. Use solder wick to remove
excess solder or solder bridges between pins.
- 3) U8, FIN1002, on bottom of board with careful soldering as with U2.
(U8 not used if a CMOS Si570 is used on the board.)
- 4) U4, Si570, on bottom of board with careful soldering as with U2.
- 5) Mount all SOICs on bottom of the board. (If an IC in the kit fits a location
then it is right for that location.)
- 6) 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.
- 7) 2-pin and 3-pin sockets mounted in J1 and J2 locations. Use 9-pin header piece
in the kit to align J1 and J2.
- 8) Resistors R1 through R26 on top of board with R11, R12, R13, R14, R15, R16, and R25
mounted flat to board. All other resistors mounted in a hairpin fashion.
(R25 not used when CMOS Si570 is used on the board.)
- 9) Capacitors C1, C3, C7, C10, C14, C17, C18, C19 and C20 mounted on top of the board.
- 10) Socket for U3 mounted on top of board.
- 11) Mount D1, D2 and D3 on top of the board in a hairpin fashion with the diode body
above each round pad.
- 12) Connect a shorting wire in the CMOS jumper location if a CMOS Si570 is to be used on the board.

SoftRock Projects

SoftRock Lite+USB Xtall v8.4

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