



SMT parts

Q1 = LM2937IMP-5.0
 Q2 = LM2937IMP-3.3
 Q3 = NPN (Panasonic 2SD2216J0L)
 U1 = FTDI FT232RQ
 U2 = Maxim MAX4411ETP
 U3 = Microchip 24LC256-I/ST
 U4 = Parallax P8X32A-Q44
 D1 = 0603 LED green clear (Parallax 350-10003)
 D2 = 0603 LED blue clear (Parallax 350-10004)
 D3 = 0603 LED red clear (Parallax 350-10001)
 D4-D11 = 0603 LED yellow clear (Parallax 350-10002)
 C1 = 0603 cap 1nF, 50V, type C0G
 C2-C4 = 0603 cap 10nF, 50V, type X7R
 C5-C7 = 0603 cap 100nF, 25V, type X7R
 C8-C13 = 0603 cap 1uF, 16V, type X7R
 C14 = 0603 cap 4.7uF, 6.3V, type X5R
 C15-C16 = 1206 cap 10uF, 10V, type X7R
 R1-R5 = 0603 res 100 ohm
 R6-R11 = 0603 res 240 ohm
 R12 = 0603 res 270 ohm
 R13-R15 = 0603 res 470 ohm
 R16-R17 = 0603 res 560 ohm
 R18 = 0603 res 1.1k
 R19-R27 = 0603 res 10k
 R28 = 0603 res 100k
 RP1-RP2 = MNR04 res 240 ohm
 J1 = USB mini-b jack (Hirose UX60-MB-5ST)
 J2 = stereo jack 3.5mm (Cui SJ1-3514-SMT)
 SW1 = momentary contact (clear button)

Through-hole parts

J3 = power jack 2mm
 J4-J5 = mini DIN 6 R/A (Singatron 2MJ-0004A110)
 J6 = RCA yellow R/A (Cui RCJ-014)
 J7 = DB15 VGA (Norcomp 181-015-212-171)
 H1 = single-row 2-pin header .100"
 S1 = single-row 13-pin socket .100"
 TP1 = test point (Keystone 1503-2)
 P1-P4 = pin receptacle (DigiKey ED5037-ND)
 SW2 = DPDT (E-Switch EG1271)

Miscellaneous

M1 = electret microphone (Horn 256-EM2208)
 X1 = crystal 5.000 MHz (ECS-50-20-4)
 JP1 = .100" shorting jumper
 B1 = breadboard (Parallax 700-00012)
 F1-F4 = feet 1/4" (Bumber Specialties BS25)

Propeller Demo, Rev C

ASSEMBLY INSTRUCTIONS

- 1) Solder SMT parts
- 2) Solder through-hole parts
- 3) Use flush cutters to cut tabs protruding from back
- 4) Clean
- 5) plug in M1, X1, and JP1 and apply B1 and F1-F4