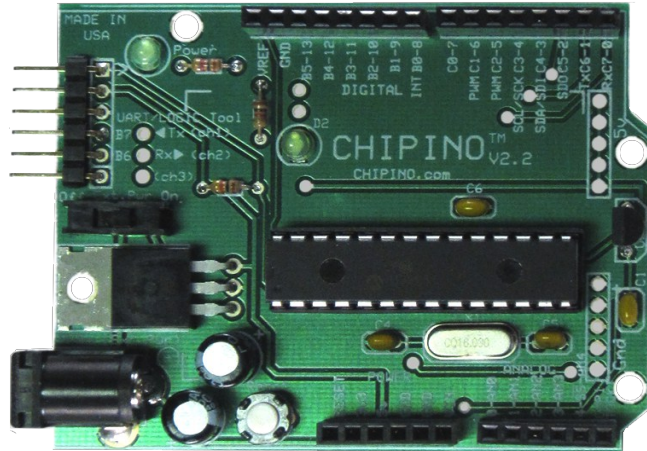


CHIPINO

Assembly Instructions

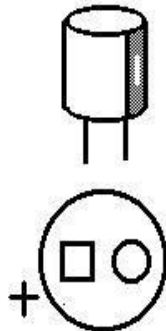


Parts List

- U1 – 28 pin Microcontroller socket (Jameco 689961)
- U2 – 3.3v Regulator (Microchip MCP1700-3302E/TO)
- U3 – 7805 5v Regulator (Jameco 103271)
- R1,R3 – 1k 1/8 w (Digikey CF18JT1K00CT-ND)
- R2 – 10k 1/8 w (Digikey CF18JT10K0CT-ND)
- D1,D2 – T1 LED Red or Green (Jameco 333201)
- C1,C6 – 0.1uf 16v Mylar Capacitor (Jameco 544868)
- C2,3 – 100uf 16v Electrolytic Capacitor (Jameco 94432)
- C4,5 – 22pf Mylar Capacitor (Jameco 332541)
- J1 – 6 pin 90deg. Header 0.100” (Jameco 103271)
- J2 – 2.1mm Power Port (Jameco 101178)
- S1 – Momentary Switch (Jameco 199726)
- Ext. Pwr – 3 pin Slide Switch (Digikey EG1903-ND)
- X1 – 16 Mhz Low Profile Crystal (Jameco 137891)
- 2 – 6 pin SIP header (Sparkfun PRT-09280)
- 2 – 8 pin SIP header (Sparkfun PRT-09279)
- 1 – CHIPINO Circuit Board (CHIPAXE CHIPINO-5)

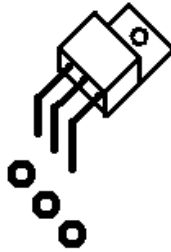
Assembly Instructions

1. Insert 28 pin socket in U1 location and solder. Make sure the “U” shape in the top of the socket lines up with the tiny “u” in the circuit board outline per the at step 17.
2. Insert R1 (1k), R2 (10k) and R3 (1k) in place and solder. They can insert in either direction. Clip off the excess leads.
3. Insert C1 (0.1uf) , C4 and C5 (22pf) in place and solder. They are not polarized so they can go in either direction. Clip off the excess leads.
4. Insert LED into D1 and D2 position and solder. Make sure the flat mark on the LED lines up with the silkscreen on the board. Clip off the excess leads.
5. Insert Slide Switch in Ext. Pwr location and solder in place. It can insert in either direction.
6. Insert momentary switch in S1 location and solder in place. It can insert in either direction. Clip off the excess leads.
7. Insert crystal in X1 location and solder. It can insert in either direction. Clip off the excess leads.
8. Insert the 100uf in C2 and C3 location with the positive leads in line with the “+” marking on the circuit board as shown in the picture below. Solder in place. Clip off the excess leads.

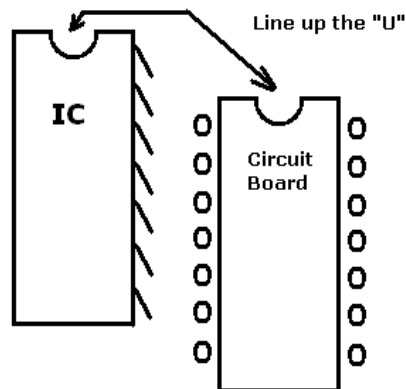


9. Bend the leads of the 7805 5v Regulator at 90 degree angle so it will insert flat on the circuit board at location U3 as shown below. Solder in

place. Clip off the excess leads.



10. Insert 6pin 90 deg. Header in ICSP Programmer location and solder leads in place. Clip off the excess leads.
11. Insert 2.1mm Power Port in place and solder. You will have to hold it to the board while you solder.
12. Insert MCP1700 in place at the U2 location. Make sure the flat side of the part lines up with the flat marking on the circuit board. Solder the part in place. Clip off the excess leads.
13. Insert the 6 pin headers at the power rail and the Analog rail. Solder in place. Make sure they align straight. Clip off the excess leads.
14. Insert the 8 pin headers at the Digital rails. Solder in place. Make sure they align straight. Clip off the excess leads.
15. Insert the microcontroller into the 28 pin socket. Make sure the “U” shape in the top of the socket lines up with the tiny “u” in the circuit board outline per the drawing below.



Congratulations. You have completed your Chipino Module.

