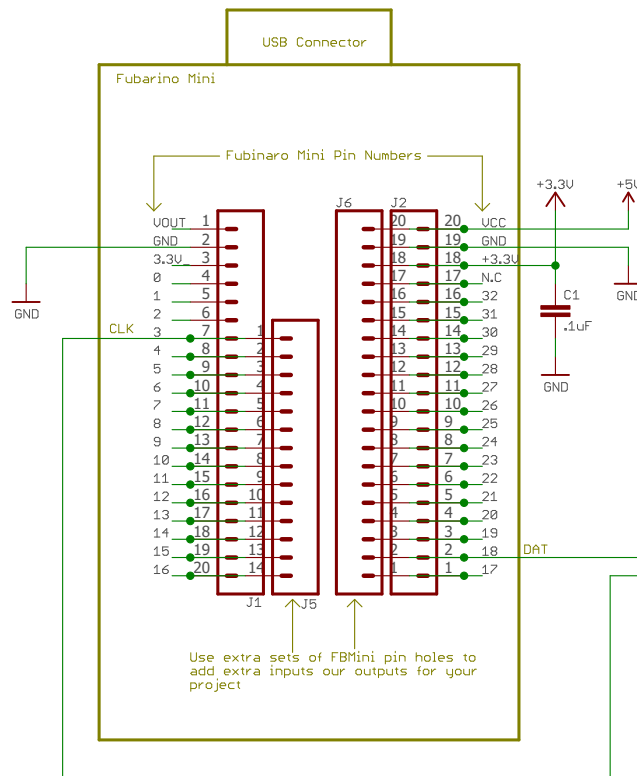


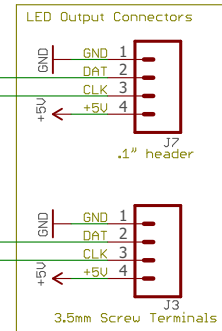
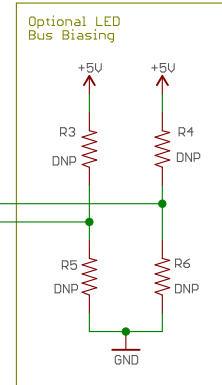
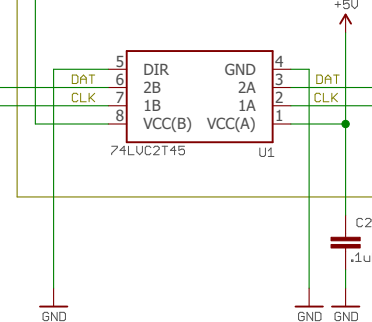
# FBMini LED Controller Board v1.1

Fubarino Mini pin table located here : <https://github.com/fubarino/fubarino.github.com/blob/master/mini/docs/FubarinoMiniUserRefManual.pdf>  
Fubarino Mini can be purchased here : <http://www.microchipdirect.com/productsearch.aspx?Keywords=TCHIP011>



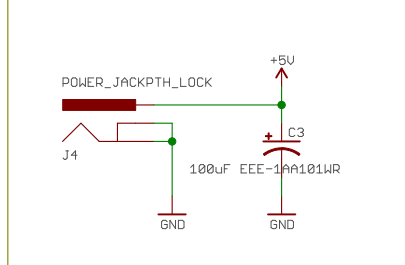
Use extra sets of FBMini pin holes to add extra inputs or outputs for your project

Level Shifter (3.3V -> 5V)

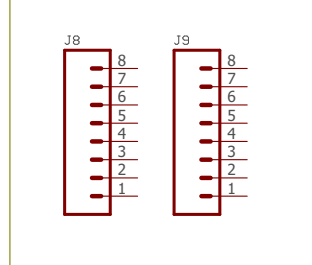


Both DotStar and NeoPixels can be used with this board.  
NeoPixel:  
Use +5V, GND, and DAT pins on connector. In code, use output pin 18.  
DotStar:  
Use +5V, GND, DAT and CLK pins in code, use default SPI port

5V Power Input



Extra Prototyping Holes



- Change List  
v1.0 6/16/2017  
Initial release  
v1.1 6/24/2017  
- Removed on/off switch  
- Centered barrel jack under FBMini  
- Flipped FBMini around so USB is on power end  
- Added series resistors in CLK and DAT  
- Added bus biasing resistors  
- Added 100uF 5V bulk cap

Designed by Brian Schmalz of Schmalz Haus LLC  
brian@schmalzhaus.com  
Extra Prototyping Holes

SCHMALZHAUS

>CNAME	
FBMiniLEDStrip	
not saved!	>DESIGNER
Sheet: 1/1	Rev: >CREVISION