

## R3- I2C Octo Isolator

We've got labels and solder mask now. Unfortunately, the labels are so close to the connectors that it makes it hard to read. I wish I had moved them out a bit, but they'll have to do. The layout shows the pins as you look at the top of the board.

The two 2-pin plugs come from the FC, and are the inputs to the board. One has 5V and Gnd, and the other has the I2C clock and data lines. Be very careful with the power plug, to make sure you don't plug it in backwards. I'm not sure how tolerant these chips are to having the 5V reversed, and I wouldn't want to test it.

All the 3-pin plugs are outputs for BL-Ctrls, and have labels such as C1-D1-G1. This means Clock1, Data1, and Ground1. The important part is the function, not the number. There's no difference between the numbered outputs, so any BL-Ctrl number can be plugged into any numbered output. Just plug them into the most convenient output. Also be careful not to plug them in backwards because that will apply ground to the clock pin on the controller, and the clock output of the I2C isolator chip. I believe I damaged a CPU on one of my V1.2 controllers that way, so be more careful than I am :-)

