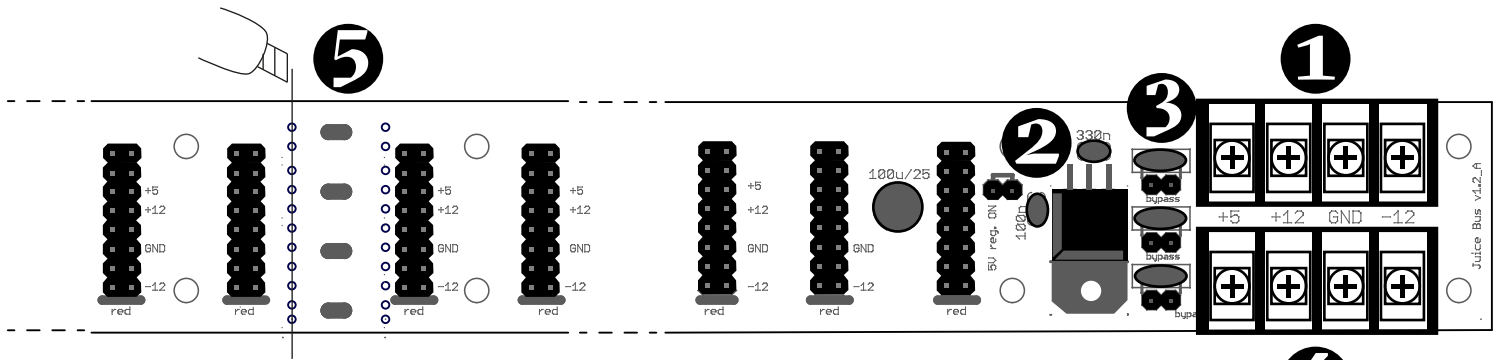


# Juice Bus



Juice Bus is re-sizable power distribution board with onboard 5V regulator and current protection. It complies to eurorack standards.

## 1 Connecting Juice Bus to your power supply

You need to have power supply which provides +12 and -12 volts and optionally 5 volts. These voltages can be safely attached to the Juice Bus with screw terminals on the right side of the board. You should use thicker cables (diameter of the core above 1 mm) for connecting the power lines as higher currents will pass thru the bus board. After connecting power cables to the power supply we highly recommend measuring the voltages that appear on the busboard pins with a multimeter. These voltages should correspond to the voltages indicated in the printing.

## 2 Using the onboard 5V regulator

Juice Bus provides on board 5V regulator to power modules that require 5 volts for their operation. The regulator can safely provide 400mA of current. The regulator is turned off by default, but turning it on is just a matter of connecting the jumper next to it.

## 3 Current protection

When using the rightmost screw terminals on the Juice Bus there is current protection installed limiting the amount of current drawn from the power supply to 1 Amp by the pair of PTC fuses. This will help to protect the power supply itself as well as your modules in case of a short circuit or modules are plugged in incorrectly. If this protection is unwanted (for example if the required current to power your modules is above 1 amp), it can be bypassed by a jumper near each of the fuses.

## 4 Chaining bus boards

For chaining multiple busboards together there is another screw terminal on the right side which simply multiplies the signal from the power supply. All the other screw terminals provide power with current protection as mentioned above.

## 5 Splitting/shortening the bus board

Juice Bus has several lines of milled holes that will make it easier to adjust the size of the breadboard to almost any modular case. To split the board make multiple cuts across the holes with a sharp knife on both sides of the board. Then hold the Juice bus on the edge of a table and break along the score lines.

### Disclaimer

Despite installed current protection Bastl Instruments takes no responsibility for any damage caused by wrong connection of the power supply or the modules.