### **2hp Lo-Fi** Analog/Digital Degradation Emulator

#### **ANALOG MODE Tech Specs** Width: 2HP Togale to LEFT Depth: 45mm \*Digital Mode on page 2 **Power Consumption:** Lo-Fi +12V=85mA, -12V=7mA, +5V=0mA **Audio Input** Range: 10Vpp IN **Wow & Flutter CV** Input Watch The Demo Range: -5V to +5V **Wow & Flutter** WOW Controls the variation and CRUSF amount of tape speed modu-**Hiss CV Input** lation, resulting in undulating Range: -5V to +5V pitch fluctuations and dips. The effect is off when the knob Hiss is fully counter clockwise. Controls the amount of tape HISS noise emulation. This effect is a combination of noise. **Pops & Crackles** amplitude modulation, and dynamic filtering. **CV** Input The effect is off when the Range: -5V to +5V knob is fully counter clock-**Pops & Crackles** wise. POP Controls the amount of pops, Mode Toggle crackles, and dropouts on the audio signal. The last 1/3 of Toggles between Analog and the knob introduces soft tape Digital modes. saturation to the signal. **Audio Output** OUT The effect is off when the knob 2hp Range: 10Vpp is fully counter clockwise.



# Module Installation

- To install your 2hp module, locate a space with the appropriate HP in your rack for installation.
- Next, connect the module's power cable to your power supply. The cables on this end are keyed, though you should make sure to align the red stripes on both connectors to ensure safe and proper connection. Our illustration uses a flying bus cable, though the same action applies for busboards/alternate power solutions. See the figure below for reference:



Next, make sure your module's power cable is properly connected to your module. For 2hp modules, confirm that your cable's red stripe aligns with the white marker line on the module's PCB, just above the power header. You may notice that even though there is only 1 row of 5 pins on your 2hp module, but 2 rows on the power cable. You can use either row of 5 pin connectors on the cable with your module, so long as the red stripe is properly aligned. See figure below for reference:

• Finally, mount your module to the rails using 2.5mm mounting screws and the included sliding mounting nuts. Your module is now ready to be powered on and patched!



Align Red Stripe with White Stripe

## **Module** Pairings

Lo-Fi is a great complement to any single sound source, but here are a few considerations from our line up that we think work great with Lo-Fi!



#### Swarm

Our latest super-sawtooth oscillator makes a perfect pairing with Lo-Fi.

Crunch up your swarming saws with the digital mode, or patch together a wobbly, vintage sawtooth synth melody with the analog mode.

#### Play

Take any sample, whether it's ambient guitar or a hip-hop beat, and make it lo-fi.



#### MMF

Dial in the exact type and amount of filtering you are looking for in your Lo-Fi sound by pairing it with MMF, our analog multi-mode filter.

With its simultaneous LP, HP, and BP outputs, you can mix an assortment of tape timbres together, or blend them into something entirely new!

### Loop

Build a tape looper in 4HP! Loop can provide high-fidelity on its own.

But, if you are looking for the endearing qualities of tape SOS looping, Lo-Fi is the perfect end of chain effect for your modular looping experiments!