

Limited warranty

This product is guaranteed to be free of functional defects for a period of 1 year from original purchase date. Proof of purchase is required for any warranty claim. Return shipping costs are covered by Boredbrain Music within the first 30 days of purchase only. Products with obvious signs of abuse or that have been modified by the end user, may not be covered under this warranty, at the discretion of Boredbrain Music.

service & inquiries

If you experience a problem with your Boredbrain product, or just want to share something interesting with us, please contact us at the link below and be sure to include your name, original purchase date, and a description of the problem you are experiencing. Then just hold tight, as we return most inquiries within 48 hours. We want to work with you to resolve your issue as soon as possible. Thanks.

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Designed and Built in Richmond, VA USA



boredbrain mimix

Mimix is a handy utility for copying and combining signals in eurorack systems. The module features three sections: two buffered multiples each with an augmented fourth output, and a 4-input unity summing mixer.

- 1 to 4 buffered multiple with inverted 4th copy
- 1 to 4 buffered multiple with rectified 4th copy
- 4 to 1 unity mixer normalled to the two multiples
- Bipolar LED signal indicators for each section

technical specs

- **Width:** 6 HP
- **Depth:** 1.00 in (25 mm)
- **Weight:** 2.0 oz (57 g)
- **Input impedance:** 1 M Ω
- **Power:** +12 V 40 mA, -12 V 40 mA



patch tips

CONVERT LFO TO REPEATING ENVELOPE

Patch a bipolar LFO into multiple B and use the **B RECT** output to open a sound's VCA, much like an envelope. A sawtooth LFO makes for interesting results.

ADDITIONAL 5TH COPY OF A MULTIPLE

If unused, the unity mixer can provide an additional copy of **A** or **B**. Just "dead patch" either the **[A]** or **[B]** input of the mixer, and use the **SUM** output to grab another copy of the other multiple.

mimix

DUAL MULTIPLE & UNITY MIXER

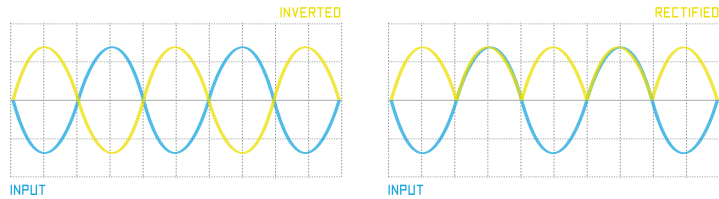
USER GUIDE

Duplication

Mimix has two independent multiples, **A** and **B**, each with four available copies of either audio or CV. Unlike passive multiples, these buffered copies use active circuitry to ensure there is no signal loss or interaction between the signals.

Additionally, the input impedance is very high so the source signal is essentially unaltered, and precision components are used so that each copy is identical. This is necessary when copying voltages scaled to 1V/oct for pitch control of oscillators and sound sources.

The two multiple sections, **A** and **B**, each have two **WHITE** LEDs which help to visualize the strengths and polarities of the input signals.



Multiple A has an inverted copy labeled **A INV**, which has its polarity flipped. When the source signal voltage is positive, this output is negative. When the source signal voltage is negative, this output is positive. This is useful for patching opposing modulation signals.

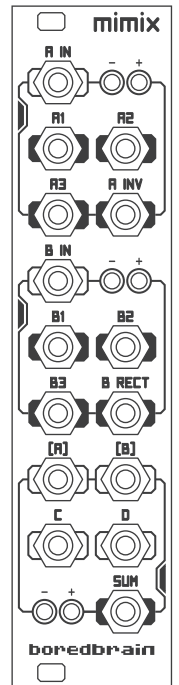
Multiple B has a rectified copy labeled **B RECT**, which outputs a full-wave rectified copy of the source signal that is always positive. When the voltage of the source signal is negative, the output is inverted. This is useful to control parameters which typically require a positive modulation signal, such as VCAs. It can also be used to distort audio signals, and much more.

Combination

The last of the module's three sections is a 4-input mixer. The summing circuit combines all four inputs at unity gain to the **SUM** output. This is useful for creating interesting modulations or mixing several audio signals together to a single output.

By default, the first two inputs, **[A]** and **[B]**, are normalled to the inputs of the two multiples. However, they may be replaced by plugging other signals into their respective input jacks. Inputs **C** and **D** are for additional external sources which can be added to the mix.

Similar to the two multiple sections, there are two **WHITE** LEDs to indicate the strength and polarity of the mixed signal at the **SUM** output jack.



6 HP