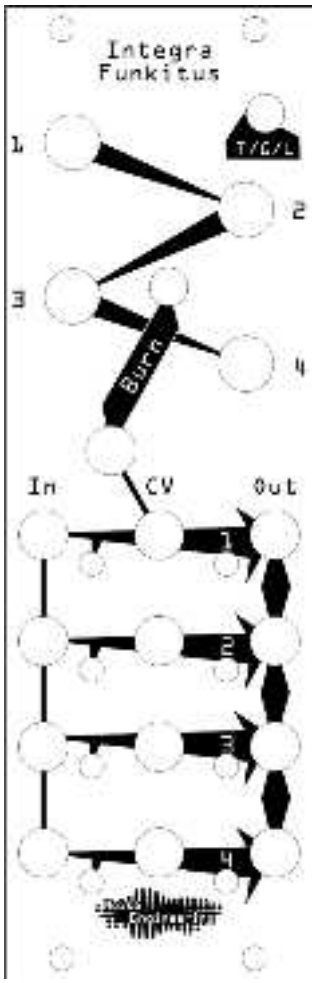
Noise Engineering
Integra Funkitus
Four-part rhythm modifier

Overview

Type	Rhythm Modifier
Size	8HP Eurorack
Depth	.8 Inches
Power	2x5 Eurorack
+12 mA	50 mA
-12 mA	11 mA



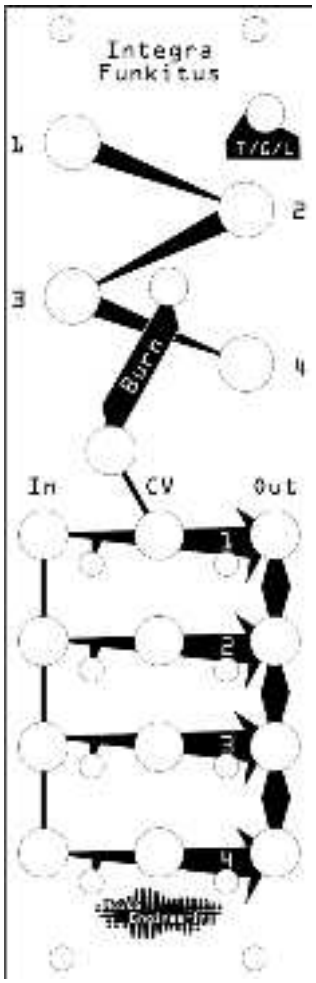
Integra Funkitus takes up to four input rhythms and combines and modifies them into rhythm outputs. There are three modes: two based on probability and one on generalized logic combinations.

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Patch Tutorial

Feed up to four rhythms from a rhythm module (such as Numeric Repetitor) into the inputs.

Connect the gate outputs to percussion modules, then turn the knobs to control how the rhythms are combined and modified.

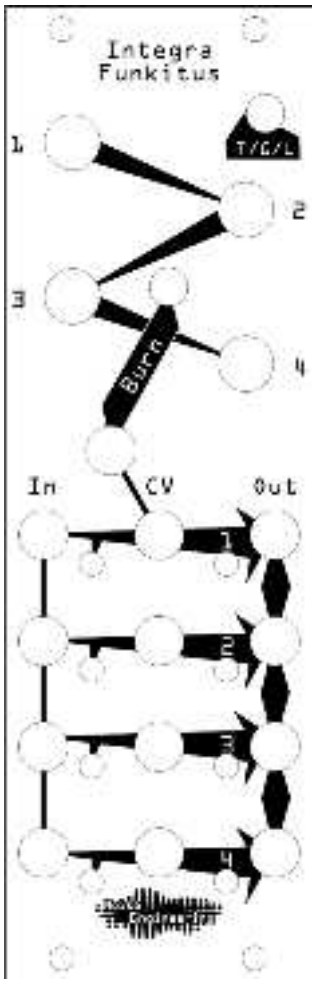


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Interface

Part Input 1-4

These are the four gate input channels. Any gate over 2v will trigger the input.



Part Output 1-4

These are the four gate output channels. They output 6v gates.

Mode Switch

Selects the mode by which the inputs will be combined. Mode options include Trigger, Gate, or Logic. How each function affects output is described below.

Trigger Mode (T) Modification Knob 1-4

In Trigger Mode, the knobs determine the probability that an input gate will pass through to the output channel. Any time a rising edge is detected a random test with probability based on the position of the knob is performed possibly letting the rising edge through. The falling edge will always be emitted.

Gate Mode (G) Modification Knob 1-4

In Gate Mode, the knobs select the probability that an edge will pass through; the die is rolled for both rising and falling edges. This produces much longer-lasting gate pulses than Trigger Mode as falling edges can be "consumed," leaving the gate high until a subsequent falling edge passes the probability test.

Logic Mode (L) Modification Knob 1-4

In Logic Mode, the knobs choose which input channels are combined into the similarly numbered output channel. When the knob is fully CCW, the output channel will match the input channel. As the knob is turned the other parts are combined into the output channel. When fully CW, the knob acts as a channel mute.

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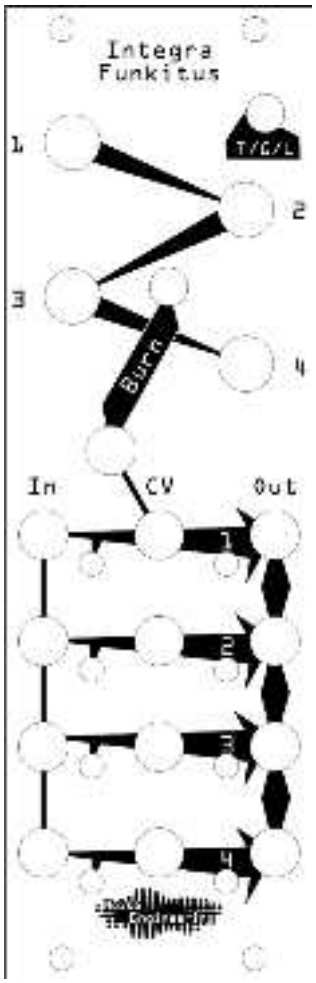
Interface

Rhythm Modification 1-4 Jack

These are CV inputs for the modification knobs. When patched, the knobs act to attenuate the signal.

Burn Switch / Jack

Burn combines all inputs into all outputs, creating a sort of instant fill.



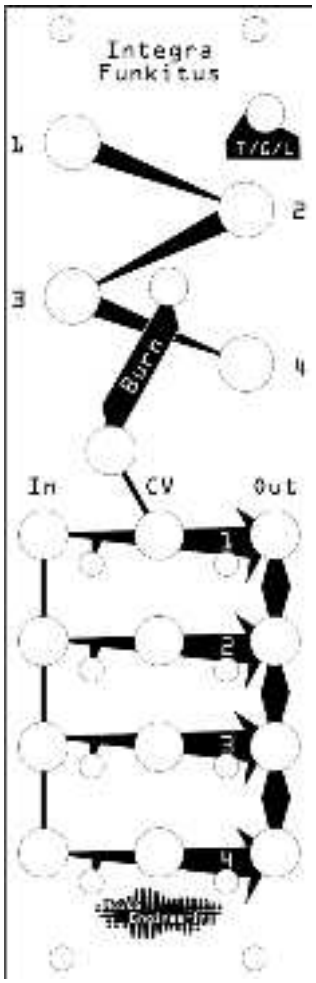
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Design Notes

Integra Funkitus was a simple answer to a simple but burning question:

How can I dynamically arrange rhythms produced by Zularic Repetitor and Numeric Repetitor?

There are a lot of logic combiners that can do cool variations so why not combine all possible or gate combinations for four inputs and address them with a knob?



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