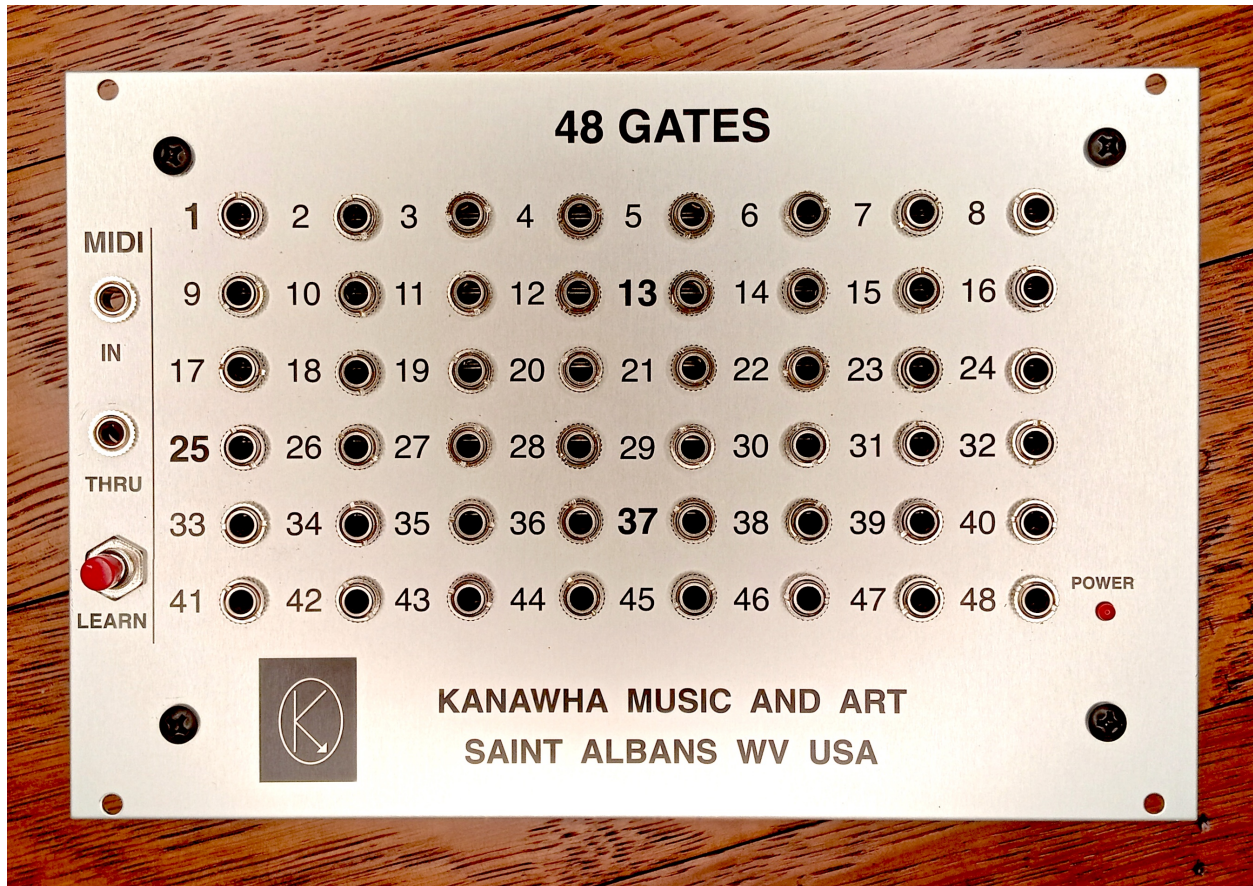


# KANAWHA MUSIC AND ART

## 48 GATES MODULE GUIDE



When connecting the module to a Eurorack power supply, a cable is supplied, and will be marked with “INVERT”. This simply has one connector upside down of the other to insure that the cable will lie flat against the connector, when plugged in the keyed header, to minimize width. (Any regular cable can be used.) The red stripe will match the red stripe on your Eurorack supply. Plug in your MIDI source, and you’re all set.

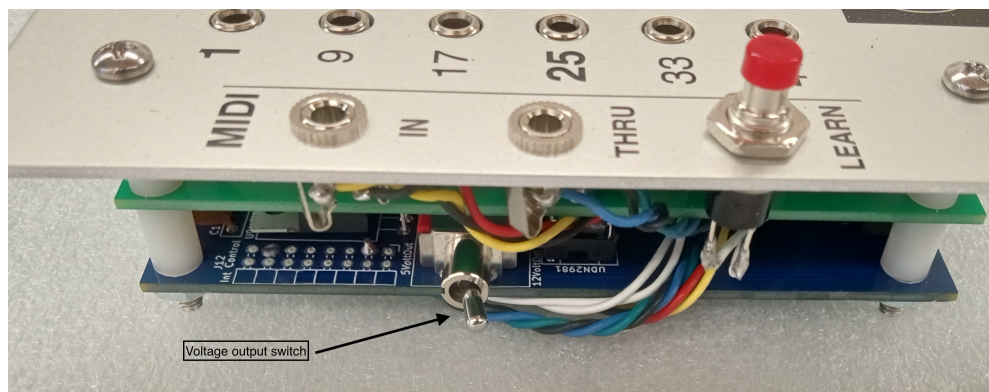


## (2)

Operation is simplicity itself. Plug your MIDI source with an “A” format 1/8 TRS adapter into MIDI IN, and any notes you play from 1-48 will result in a +12 volt output on the corresponding jack on the front panel. If you’d like to change the starting note and/or MIDI channel, simply hold in the “LEARN” button, and press the key you’d like to assign to output number 1. The key number and channel are then automatically assigned to front panel output number 1, and the outputs will go up from there. The MIDI THRU jack supplies a copy of the incoming MIDI data for chaining to another device. (By default, output number one is mapped to Channel 1, note 1 on a keyboard).

We purchase the MIDI modules from MIDI-Hardware in Poland, and the user manual for the module itself is available here: <https://www.midi-hardware.com/instrukcje/midecousman7.pdf>

Note that in the standard configuration, each output is capable of driving a load of 12 volts and 120 milliamps. Caution is required if many outputs are going to be driven simultaneously with heavy loads, as this could outstrip the capability of whatever power supply is being used. The output on current models can be switched between 5V and 12V by a switch on the level shift board:



Some suggested uses of the module include creating a dot matrix display with LEDs (which looks great on stage!), activating relays, solenoids or motors from the keyboard; triggering other sounds from other modules, etc.

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