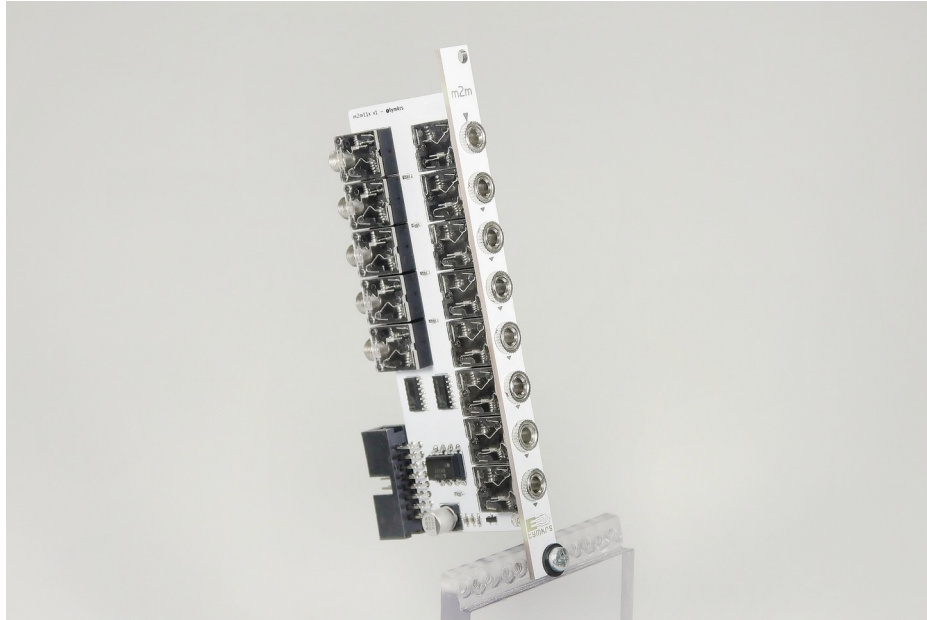# M2M Module (MIDI Splitter / MIDI-thru)

Tymkrs presents the M2M Module – a 2hp MIDI-splitter or MIDI-thru Eurorack module allowing you to take 1 optoisolated MIDI input (TRS Type A) to output copies to 11 buffered MIDI outputs!

You can choose to plug your MIDI input into the top front jack OR the top back jack. The MIDI input is normaled to the back. The input on the back is the default MIDI input unless something is plugged into the MIDI input on the front of the module.

- This is incredibly convenient as it means that you can set up your system to primarily use the MIDI input that's plugged into the back of the module, but still midi-split a completely different input temporarily by plugging it into the front!

Arrows on the face plate and labels on the side of the module help differentiate between whether the jack is an input or output. On the face plate, the input will have an arrow pointing towards the input jack whereas the output will have an arrow pointing away from the input jack. The side label for the input reads "IN" and the outputs are numbered 01 to 11.

This is easily powered by a standard 8x eurorack power supply on the +5V rails. And any MIDI serial traffic coming into the module will be reflected by an activity light.

Dimensions:
Length - 3U
Width - 2hp
Depth – 50 mm with power jack (1.97 inches)

Use Case Scenarios:

- Drive multiple modules with a single MIDI source.
- So bad it's a great idea:
  - If you put a bipolar oscillating waveform output into the input of the M2M, the M2M will output a square wave and varying the waveform will change the duty cycle of that square wave. So, this can be used as a 1-bit bit-crusher where amplitude can be pulse-width modulation! It sounds awesome.