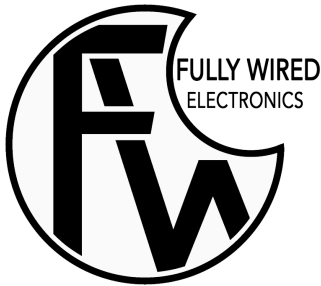


# Fully Wired Electronics - Mini Quad Mute

## User Manual



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## Limited Warranty:

Fully Wired Electronics warrants this product to be free of defects in materials or construction for a one year (twelve month) period from the date of purchase<sup>1</sup>. Proof of purchase via a receipt or invoice is required when making a warranty claim.

Malfunction resulting from incorrect power supply voltages, reversed or backwards Eurorack bus board connections, faulty or damaged cables, incorrect patching, general misuse, the modification of the faceplate and/or the products circuitry or any other causes of malfunction that Fully Wired Electronics deems to be at the fault of the user are not covered by this limited warranty. Normal service rates will be applied.

Attempting to alter and/or modify this product in any way will void this limited warranty.

During this one year limited warranty period, all defective products will be repaired or replaced at the discretion of Fully Wired Electronics. Products must be returned directly to Fully Wired Electronics, with the customer paying the cost of transit to Fully Wired Electronics.

Fully Wired Electronics accepts and implies that no responsibility will be taken for harm to person and equipment through the operation of this product.



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<sup>1</sup> For pre-orders this is applicable from the date of shipment rather than the date of purchase

## Installation and Safety:

Prior to installing and uninstalling this product, please ensure that your Eurorack power supply is turned OFF. Installing or uninstalling this product without doing so is potentially dangerous, running the risk of causing damage to your equipment and electrocuting yourself. To minimise the possibility of backwards or reversed power supply connections, the module is fitted with a shrouded 10 (2x5) pin header.

Despite this precaution please ensure that both the power cable header, and the power supply headers are orientated correctly. Also ensure that there is NO damage to the power cable being used. A damaged power cable may cause harm to the module, the power supply being used, or yourself!

## Foreword:

Thank you for purchasing the Fully Wired Electronics - Mini Quad Mute. We value all of our customers for their support. Your purchase is greatly appreciated!

Special thanks to everyone who was involved during the development and production of this module, and the journey of Fully Wired Electronics for your help and unwavering support! We would also like to thank everyone within the Eurorack community who made feature suggestions.

## Module Overview:

The Fully Wired Electronics - Mini Quad Mute is a 4 channel 6HP user configurable vactrol based mute module, which features four cascaded mono signal paths. The MQM is perfect for muting any signal types found within a Eurorack System that utilise a TS cable such as audio, CV, and Gate and Triggers. The MQM can be controlled directly through each of its 4 channel buttons, or via its 4 Gate/Trigger Inputs. Each channel can be muted with momentary and latching functionality without having to choose between them.

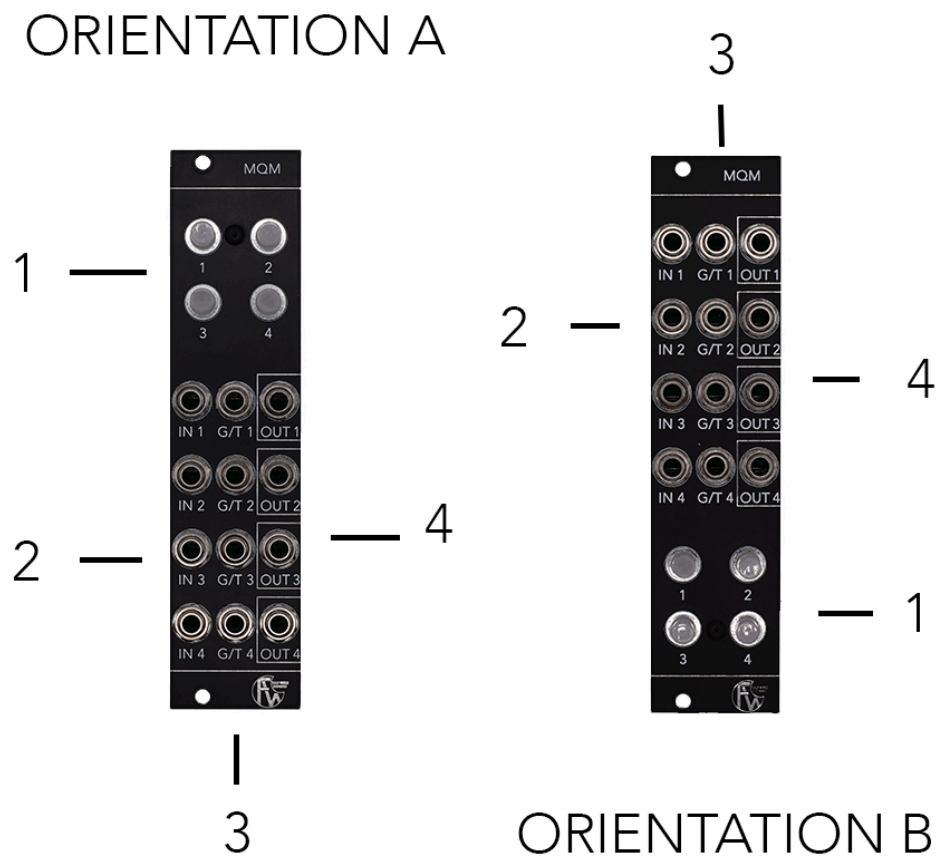


Fig 1. Mini Quad Mute panel overview

1. Channel Buttons - Each of the 4 “Channel Buttons” correspond to one of the 4 associated channels. All 4 buttons feature the ability to latch or momentary switch between a ‘Muted’ or ‘Unmuted’ state. When short pressed, the associated channel will latch between the two states. When long pressed, the associated channel will momentarily be in an ‘Unmuted’ state whilst held, and will switch to a ‘Muted’ state when the button is released. If an active Gate signal is detected via one of the “G/T” inputs (3), the associated “Channel Button” will not have an effect until the Gate Signal has ended.
2. Channel Inputs - The MQM features 4 cascaded “Channel Inputs”, each corresponding to their associated channel (“IN 1” - Channel 1, etc.). The 4 inputs are cascaded from “IN 1” through to “IN 4”. When no cable is patching into “IN 1”, 10V (10 Volts) will be generated and can be utilised across all four channels when no cables are patched into the “Channel Inputs”. Regardless of the orientation, the “Channel Inputs” are present on the left hand side of the MQM.
3. Gate/Trigger Inputs - Each of the 4 Gate/Trigger (“G/T”) inputs is used to control the state of the corresponding channel via Gate or Trigger signals. Depending on if the MQM detects a Gate or a Trigger signal, The 4 G/T inputs are found in the centre of the I/O (to the right of the “Channel Inputs”, and to the left of the “Channel Outputs”), regardless of the selected orientation. When a Gate signal is detected the associated channel momentarily be in an ‘Unmuted’ state while the signal is active, and will switch to a ‘Muted’ state when the Gate ends. When a Tigger is detected, the associated channel will latch between the two states. If the button of an associated channel is long held, Gate and Trigger signals detected will not have an effect until the “Channel Button” (1) is released.
4. Channel Outputs - There is a channel output for each of the channels. Each of these channel outputs are found to the right of the MQM, regardless of the orientation selected.

## Additional Functions:

### User Configurable Layout:

The MQM features two user configurable layout orientations (Orientation A and Orientation B). When received, your MQM will be in the Orientation A configuration, where the “Channel Buttons” are present at the top of the module, and the input and output jack sockets will be at the bottom. The following steps can be followed to change the orientation of the MQM:

1. Locate and remove the 1.5mm M2.5 HEX screw from the front panel. This screw is located between the “1” and “2” channel buttons for the Orientation A panel, and between the “3” and “4” channel buttons on the Orientation B panel. Be careful not to lose or misplace this screw.
2. Flip the module so that you are now looking at the back of the MQM. Locate and remove both 1.5mm M2.5 HEX screws from the rear of the module, which attach the I/O board to the rear PCB. These screws are located at the opposite end of the module to the Boxed Power Header. Do not remove the screws closest to the Boxed Power Header. Be careful not to lose or misplace these screws.
3. Now that the I/O board can be removed, flip the module once more so that you are looking at the front panel. Grip the panel around the jack sockets and pull to remove the I/O board, without damaging the pin headers.
4. Holding the alternative I/O board at the same point, attach the new I/O board to the MQM. Be careful to align the header pins and button holes correctly.
5. Once seated correctly, reattach all three 1.5mm M2.5 HEX screws from the front and the rear of the module.



### User Configurable Status LEDs:

The DIP switch on the rear of the unit (located near the power header) is used to select how the module conveys each channel state. By default, when the switch is in its down position, the Channel Button LEDs will be illuminated when each channel is unmuted (the channel is on), and will be off when the channel is muted (the channel is off). When the switch is moved to its up position the opposite is true, where illuminated Channel Button LEDs indicate that the associated channel is muted (channel is off), while the unmuted state (the channel is on) will be shown by the LED being off.

## Technical Specifications:

- Module Format: 3U
- Module Width: 6HP
- Module Depth: 32mm
- Power:
  - +12v current draw: 48mA
  - -12v current draw: 11mA
  - +5v current draw: 0mA