

The

AvonSynth User Guide

AVS-MULT-1 Quad Buffered Multiple



Thank you for purchasing from AvonSynth

Congratulations on your purchase of a brand new AvonSynth AVS-MULT-1 Quad Buffered Multiple Eurorack Module. We trust that it will both serve and inspire you as you create beautiful music with it for years to come.

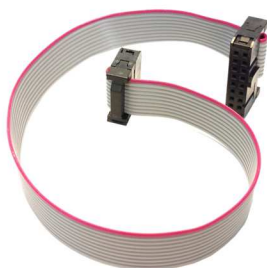
In order to get the most out of your module, please ensure that you read this User Guide in its entirety so that you fully understand all of its functionality, and that you follow all necessary safety directions during use.

Included in the Box

1 x Mult Module



1 x 10 pin to 16 pin flat-cable power cord



2 x M3 Mounting Screws



2 x Nylon Washers



Installation

Step 1: Power your system off. Place the module in your Eurorack-compatible rack in any convenient position. Affix the module to your rails using the included mounting screws and nylon washers. Neglecting to use these washers may result in unnecessary marking of the unit.

Step 2: Triple check the polarity of the power connector before connecting the power cord to your power supply. Ensure that the -12v line marked on the back of the module connects to the same end of the flat-cable that also connects to the -12v line on your power supply. While AvonSynth modules use shrouded connectors that make this process safer and more reliable, some systems do not conform to this polarity standard, so careful checking is **always** necessary. Connecting the module with incorrect polarity can result in irreversable damage done to the module which cannot be covered by warranty.

Step 3: Power up your system and start patching!



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Features & Specifications

- Fully Analogue Quad Buffered Multiple
- 6 HP wide (30mm), 20mm deep
- 2 x 4-Output and 2 x 3-Output channels
- Current consumption: +12V 28ma, -12V 28ma
- Inputs normalled in series
- 1 input to up to 14 outputs when chained
- Op-amp buffering with precise 1k output impedance
- Accurately drive identical voltages without droop

Description of Functionality

This module consists of four buffered multiple circuits that can be used in two ways: independently, or in series

Independent

Each of the inputs is labelled IN 1, IN 2, IN 3, or IN 4, and any signal that is plugged into one of these inputs is reproduced faithfully at all of the outputs positioned below that input via an analogue, unity-gain op-amp circuit.

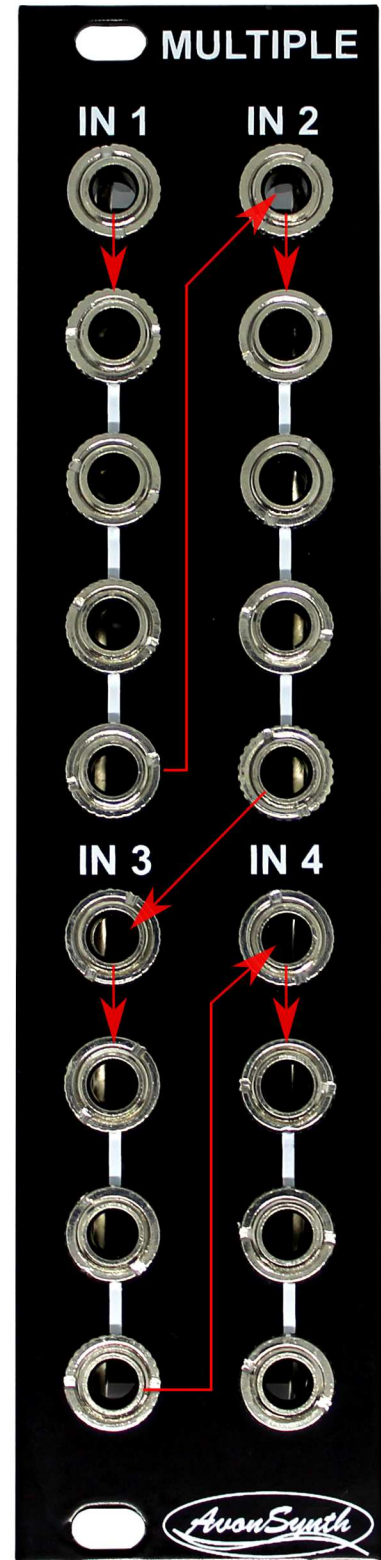
Series

Inputs 2, 3, and 4, are normalled to the outputs of channels 1, 2, and 3 respectively. This means that signals that are connected to an input are automatically propogated to the channels higher in number, unless an alternative input is connected to those channels.

For example, if a signal is connected to IN 1, and nothing is plugged in to IN 2, IN 3, and IN 4, IN 1's signal is reproduced at all 14 of the outputs of the unit. If however another signal is plugged in to IN 3, the first signal is output from channel 1 and 2, and the second signal is output from channels 3 and 4.

Note:

Only use outputs of channels that have a valid input signal flowing through them, as without an input, the output becomes undefined, and could be any voltage between -12V and +12V.



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Safety Precautions

Please use this module in accordance with the following safety guidelines in order to maximize the life of the module and ensure warranty from AvonSynth.



Keep water and other conductive liquids and materials away from this module. It is not water proof, or even water resistant. Exposure to these can cause short-circuits that can render the equipment unusable.



Be sure to keep this equipment in an environment with an ambient temperature above -20°C and below $+50^{\circ}\text{C}$. Excessively hot or cold temperatures can be damaging to the electronic circuits used.



Modules with exposed circuit-boards are delicate. Take the utmost care when handling and transporting this equipment, making sure not to subject it to excessive forces. Ensure that the module is installed correctly while being transported and that the original packing materials are used when sending the module anywhere by post.

Warranty & Support

This product is covered by AvonSynth's warranty for one year from the manufacturing date. Within this timeframe, any manufacturing defect will be repaired or replaced by AvonSynth. Damage caused to the product due to not following the safety precautions above, unauthorized modification of the hardware, or misuse such as subjecting the unit to reverse or excessive voltages will void this warranty.

If you have any concerns about your AvonSynth hardware, please get in touch via **info@AvonSynth.com** to discuss any issues. We will do our best to assist you in getting your hardware operating correctly, and if necessary, we will provide an RMA (Return Merchandise Authorization) to send back the unit for inspection. Any postal costs incurred in this process will be the responsibility of the customer. Please do not send back merchandise before receiving this authorization.