

Mult Buffered

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Warranty

THIS PRODUCT IS COVERED BY MORPHOR'S LIMITED WARRANTY, FOR TWO YEARS FOLLOWING THE DATE OF PURCHASE (PROOF OF PURCHASE/INVOICE REQUIRED). THIS WARRANTY COVERS ANY DEFECT IN THE MANUFACTURING OF THIS PRODUCT.

THIS WARRANTY DOES NOT COVER ANY DAMAGE OR MALFUNCTION CAUSED BY INCORRECT USE - SUCH AS, BUT NOT LIMITED TO: POWER CABLES CONNECTED BACKWARDS, WRONG POWER SUPPLY VOLTAGES, BACKWARDS OR REVERSED EURORACK BUS BOARD CABLE CONNECTION, EXCESSIVE VOLTAGE LEVELS, ABUSE OF THE PRODUCT, REMOVING KNOBS, CHANGING FACE PLATES, EXPOSURE TO EXTREME TEMPERATURE OR MOISTURE LEVELS, OR ANY OTHER CAUSES DETERMINED BY MORPHOR TO BE THE FAULT OF THE USER ARE NOT COVERED BY THIS WARRANTY, AND NORMAL SERVICE RATES WILL APPLY.

THE WARRANTY COVERS REPLACEMENT OR REPAIR, AS DECIDED BY MORPHOR. PLEASE CONTACT OUR CUSTOMER SERVICE (SUPPORT@MORPHOR.IO) FOR A RETURN AUTHORIZATION BEFORE SENDING THE MODULE. THE COST OF SENDING A MODULE BACK FOR SERVICING IS PAID FOR BY THE CUSTOMER. CHANGES AND/OR MODIFICATIONS TO THE MODULE NOT APPROVED BY MORPHOR COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THE INSTRUMENT IS TO BE SHIPPED IN THE ORIGINAL PACKAGING ONLY. ANY INSTRUMENT SHIPPED TO US FOR RETURN, EXCHANGE, WARRANTY REPAIR, UPDATE OR EXAMINATION HAS TO BE IN ITS ORIGINAL PACKAGING! ALL OTHER DELIVERIES WILL BE REJECTED. THEREFORE, MAKE SURE YOU KEEP THE ORIGINAL PACKAGING AND TECHNICAL DOCUMENTATION.

PLEASE FOLLOW THE INSTRUCTIONS FOR USE OF THE INSTRUMENT CAREFULLY BECAUSE THIS WILL GUARANTEE PROPER OPERATION OF THE INSTRUMENT. DUE TO THE FACT THAT THESE INSTRUCTIONS TOUCH ON PRODUCT LIABILITY, IT IS ABSOLUTELY IMPERATIVE THAT THEY BE READ CAREFULLY. ANY CLAIM FOR DEFECT WILL BE REJECTED IF ONE OR MORE OF THE ITEMS HAS NOT BEEN OBSERVED. DISREGARD OF THE INSTRUCTIONS CAN VOID THE TWO YEARS COVERED BY WARRANTY.

Package Contents

In the Morphor Buffered Mult box you will find:

- The Morphor Buffered Mult module itself
- A 16-to-10-pin Eurorack power cable (already plugged in)
- 2 high-quality thumb screws including washer
- An original Morphor brand sticker

If any of the above items is missing, please contact your dealer or send an email to support@morphor.io.

Safety Instructions

- I. Never use the instrument in a humid or wet environment, nor near flammable goods. The instrument must never be operated outdoors but solely in dry rooms.
- II. No liquids or conducting substances must get into the instrument. Should this be the case, the instrument is to be disconnected from mains power immediately and examined, cleaned and possibly repaired by a qualified technician.
- III. Never expose the instrument to temperatures above +50° C or below -10° C. Before operation, the instrument should have a temperature of at least 10° C. Do not expose the instrument to direct sunlight. Do not install the instrument near heat sources like heaters, open fire places, central heating etc. Keep the top of the instrument clear in order to allow proper ventilation, otherwise the instrument could eventually overheat.
- IV. Never place heavy objects on the instrument.
- V. Transport the instrument carefully, never let it drop or fall over. Make sure that during transport and in use the instrument is supported properly and cannot drop, slip or fall over because people might get injured.
- VI. The instrument may only be used for the purpose described in this operating manual. Due to safety reasons, the instrument must never be used for other purposes.

Conformity

This device meets the requirements of the following standards and/or directives: 2014/30/EU, 2014/35/EU, 2009/125/EC, 2011/65/EU, 2012/19/EU, EN 60065, EN 55032, EN 55035. Please refer to the online Declaration of Conformity for detailed information regarding compliance.



Installation

Before you start

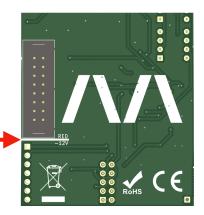
Morphor modules are designed to be used with an Eurorack-compatible case and power supply. We recommend you to use a case with an adequate high-quality power supply. Before installing the module in your case, you must ensure your power supply has a free Eurorack standard PSU connector (2x8 pin header connector) and sufficient available capacity to power the module:

- 1. Make a separate sum of the +12 V, -12 V and +5 V maximum current draws respectively for all your modules, including the new one. The maximum current draw is specified in the manufacturer's technical specifications for each module. You can use a tool like <u>ModularGrid</u> to help you calculate the total values for your case.
- 2. Compare each of these sums to the specifications of your case's power supply.
- 3. Proceed only with the installation if none of the total values exceeds the power supply's specifications. Otherwise you must remove some modules to free up some capacity or upgrade your power supply to allow more capacity in your case. If you do not adequately power your modules, it may result in damage to your modules or power supply. If you are unsure, please contact us before proceeding.
- 4. Make sure your case has enough free space (HP) to fit the new module. To prevent screws or other debris from falling into the case and shorting any electrical contacts, do not leave gaps between adjacent modules, and cover all unused areas with blank panels. Similarly, do not use open frames or any other enclosure that exposes the backside of any module or the power distribution board.

Installing your module

Always turn off the power to the case and disconnect the power cable when installing or removing a module from your case to avoid injury or equipment damage.

The Morphor Buffered Mult uses the -12 V and the +12 V rail of the power supply (using a standard Eurorack 2x5 pin connector). The red stripe of the included ribbon cable (-12 V side) must be oriented on the same side as the – "RED -12 V" marking on the module and on your Eurorack power distribution board.



The module draws a maximum current of 12 mA from the +12 V rail and maximum 12 mA from the -12 V rail.

Example rear side of a module



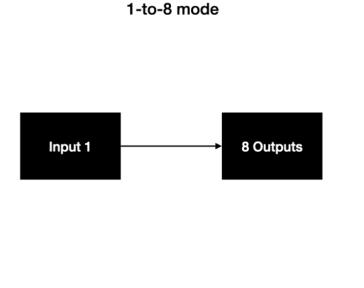
Introduction

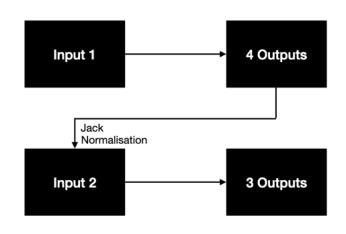
The Morphor Buffered Mult offers great flexibility for being such an essential item in every rack. This buffered DC-coupled module will fulfill all your audio and CV multiplying needs.

With a little switch on the back the module can be configured in two different modes. The 1-to-8 mode speaks for itself, offering eight identical copies of your input signal. The Double mode offers a 1-to-4 and 1-to-3 buffered multiple with the first input getting normalised to all output jacks if the second input stays unused.

Happy morphing!

Module overview





Double mode

Controls & Connections



INPUT1[1]

DC-coupled input to start multiplying your audio or CV signal.

OUTPUTS1-4[2]

A first set of four outputs. These buffered outputs will always give the same signal as the first input.

INPUT 2/OUTPUT 5[3]

In the 1-to-8 mode this jack will always act as an extra output. In Double mode this jack will act as an extra input jack for the three following outputs.

OUTPUTS 6-8[4]

A set of three buffered outputs. In the 1-to-8 mode these will always give the same signal as the first input. This will also be the case in Double mode when the second input stays unused. Insert a cable in the second input to use these outputs as a separate 1to-3 buffered multiple.

MODE SWITCH [5, BACKSIDE]

Use this small switch to change the mode between 1-to-8 or Double mode (1-to-4 + 1-to-3 with normalisation)

Technical Specifications

module width	2 HP (9.8 mm)
module height	3 U (128.5 mm)
module maximum depth (incl. power cable)	30 mm
module mass	27g
maximum current draw	12 mA@+12 V 12 mA@-12 V
input impedances	100 kOhm
output impedances	1kOhm
front panel	2 mm anodized aluminum

Support

To provide the best possible performance with the highest quality and reliability for music professionals, all Morphor's products are designed, manufactured and tested in-house with the highest possible standards. In case your module is not functioning as it should, make sure to check your Eurorack power supply and all connections first.

If the problem persists, contact your dealer or send an email to support@morphor.io. Please mention your serial number, which can be found on the module's rear side.

Module Revision History

Revision 1.0 - initial release

Manual Version

22/03/2023 - initial release

https://www.morphor.io



Designed & made in Belgium

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