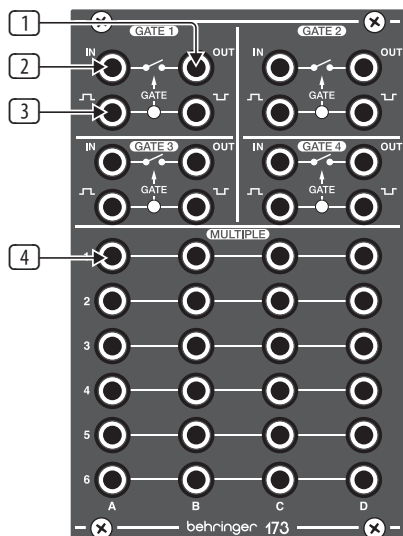


# Quick Start Guide

## 173 QUAD GATE/MULTIPLES

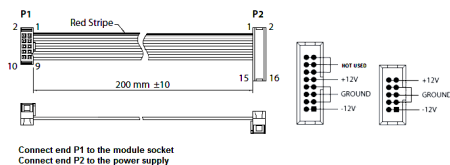
Legendary Analog Quad Gate & Multiples Module for Eurorack

### Controls



- 1 **GATE OUT** – Send the gate signal to another module via 3.5 mm TS cable.
- 2 **GATE IN** – Connect an incoming signal via 3.5 mm TS cable.
- 3 **GATE CV** – Connect a control voltage signal from other modules to control gate operation, non-inverting (active high) and inverting (active low) inputs.
- 4 **MULTIPLES** – Connect a signal to the A jack that will be sent to multiple designations via the B, C and D jacks in the same row.

### Power Connection



The module comes with the required power cable for connecting to a standard Eurorack power supply system. Follow these steps to connect power to the module. It is easier to make these connections before the module has been mounted into a rack case.

1. Turn the power supply or rack case power off and disconnect the power cable.
2. Insert the 16-pin connector on the power cable into the socket on the power supply or rack case. The connector has a tab that will align with the gap in the socket, so it cannot be inserted incorrectly. If the power supply does not have a keyed socket, be sure to orient pin 1 (-12 V) with the red stripe on the cable.
3. Insert the 10-pin connector into the socket on the back of the module. The connector has a tab that will align with the socket for correct orientation.
4. After both ends of the power cable have been securely attached, you may mount the module in a case and turn on the power supply.

### Installation

The necessary screws are included with the module for mounting in a Eurorack case. Connect the power cable before mounting.

Depending on the rack case, there may be a series of fixed holes spaced 2 HP apart along the length of the case, or a track that allows individual threaded plates to slide along the length of the case. The free-moving threaded plates allow precise positioning of the module, but each plate should be positioned in the approximate relation to the mounting holes in your module before attaching the screws.

Hold the module against the Eurorack rails so that each of the mounting holes are aligned with a threaded rail or threaded plate. Attach the screws part way to start, which will allow small adjustments to the positioning while you get them all aligned. After the final position has been established, tighten the screws down.

## Specifications

### Signal Input

Type	3.5 mm jack, DC coupled
Impedance	160 k $\Omega$ , unbalanced
Maximum input level	+17 dBu

### Signal Output

Type	3.5 mm jack, DC coupled
Impedance	1 k $\Omega$ , unbalanced
Maximum output level	+17 dBu
Frequency response	DC to 20 kHz
Output noise	< -90 dBu, 22 Hz - 22 kHz

### Gate Control

Type	2 x 3.5 mm jacks, non-inverting and inverting
Impedance	>50 k $\Omega$ , unbalanced
Switching threshold	Non inverting > +3 V, inverting < +1.5 V
Maximum input level	10 V p-p

### Multiples

Type	24 x 3.5 mm TS mono jacks, unbalanced
Arrangement	6 sets of 4 parallel jacks, passive
Compatibility	CV and audio signals

### Power

Power supply	Eurorack
Current draw	40 mA (+12 V), 40 mA (-12 V)

### Physical

Dimensions	28 x 81 x 129 mm (1.1 x 3.2 x 5.1")
Rack units	16 HP
Weight	0.18 kg (0.4 lbs)

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