Behringer — 173

- Manual PDF

Behringer SYSTEM 100 Series 173 QUAD GATE/MULTIPLES Manual (PDF)

Behringer 173 QUAD GATE/ MULTIPLES Quick Reference Cheatsheet

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Overview

The **Behringer 173 QUAD GATE/MULTIPLES** is a utility Eurorack module combining four gate process channels and six sets of passive 4-way multiples. It's a simple, but powerful, way to route and manage gate/trigger signals and distribute audio/CV across your modular.

Front Panel Controls & Connections

No Knobs, Buttons, Sliders, or Toggles — This module is patch-programmable only.

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1. GATE Section (top 4 rows)

Four individual gate processors, labeled CH1–CH4.

- **GATE IN** (3.5mm jack, left of each section)

- **Type**: Input (accepts gate or trigger)
- **Input Impedance**: 160kΩ, unbalanced
- **Voltage Range**: Up to +17 dBu (~12V p-p, handle at least ±10V typical modular signals)
- **GATE CV** (3.5mm jack, middle of each section)
- **Type**: Control Voltage input
- **Impedance**: >50kΩ, unbalanced
- **Non-Inverting (active high):** gate opens with CV > +3V
- **Inverting (active low):** gate opens with CV < +1.5V
- **Voltage Range**: Up to 10V p-p
- **GATE OUT** (3.5mm jack, right of each section)
- **Type**: Output (passes gate if input and CV are high/truthy)
- **Output Impedance**: 1kΩ, unbalanced
- **Voltage Range**: Up to +17 dBu
- **Frequency Response**: DC to 20 kHz
- **Output Noise**: < -90 dBu

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2. MULTIPLES Section (bottom 6 rows)

Six sets of four interconnected jacks per row (A, B, C, D).

- **MULTIPLES A/B/C/D** (total 24x 3.5mm jacks)
- **Type:** Passive parallel connections
- **How to use:**
    - Patch an input into A, and the signal appears at B, C, D
    - You can also patch into B, C, or D — they are all parallel
- **Signal Types:** Passes both audio and CV without clipping
- **Unbuffered (Passive):** No active circuitry
- **No voltage drop unless you split to many loads**

Voltage and Patch Notes

- **Works with logic, gates, triggers, audio, and CV signals.**
- **Voltage thresholds:**
- **CV Gate:** > +3V triggers gate (non-inverting), < +1.5V triggers (inverting)

- **Max Input/Output:** ~±10V (stated as +17 dBu)
- **Power draw:** 40mA (+12V), 40mA (-12V)

Typical Usage Patterns

- **Gate Channel:**
- Patch a gate or trigger signal to **GATE IN**
- Patch a control voltage to **GATE CV** to enable/disable passing the gate
- Use **GATE OUT** to route the conditioned gate to other modules
- **Multiples:**
- Patch any signal (CV or audio) into 'A' (or any jack in the row), and break out to up to 3 other places

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Reference Summary (All Jacks)

Label	Type	Function	Voltage Range
GATE IN	Input	Gate/trigger input	±10V typical
GATE OUT	Output	Gate/logic output	±10V typical
GATE CV	Input	Control of gate pass-through (internal logic)	0–10V (thresholds: +3V or +1.5V)
MULTIPLES A-D	Input/ Output	Passive mults for CV and audio (any jack is input/output)	Modular levels (±10V)

No knobs, buttons, switches or sliders.

For specifics, refer to the official manual PDF.

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