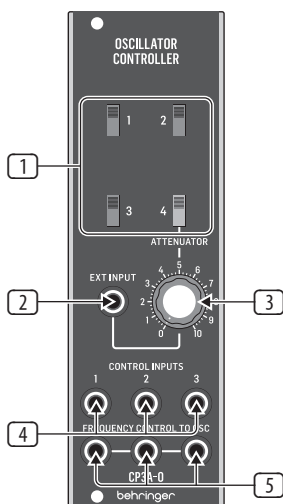


# Quick Start Guide

## CP3A-O OSCILLATOR CONTROLLER

Legendary Analog Oscillator Controller Module for Eurorack

### Controls

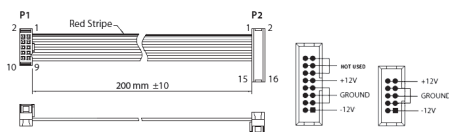


- 1 **ROUTING SWITCHES** – Use these switches to select and combine incoming control voltage signals from the three CONTROL INPUTS jacks and the EXT INPUT jack. To select a control voltage input, move the desired input's matching switch to the upper position.
- 2 **EXT INPUT** – Use this jack to route in an external control voltage signal via a cable with 3.5 mm TS plugs. This jack's signal path includes an attenuator, which is controlled by the ATTENUATOR knob. Select the EXT INPUT jack by moving the number 4 ROUTING SWITCH to the upper position.
- 3 **ATTENUATOR** – Rotate this knob counter-clockwise from the full position (10) to attenuate the external control voltage signal coming into the module through the EXT INPUT jack.
- 4 **CONTROL INPUTS** – Route external control voltage signals into these parallel jacks via cables with 3.5 mm TS connectors. These jacks can be selected individually by moving the desired jack's matching ROUTING SWITCH (1, 2 or 3) to the upper position.

- 5 **FREQUENCY CONTROL TO OSC** – Use these parallel jacks to route the final, combined control voltage signal back out of the module via cables with 3.5 mm TS connectors.

### Power Connection

The CP3A-O OSCILLATOR CONTROLLER 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.



Connect end P1 to the module socket  
Connect end P2 to the power supply

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

### Controls

Control selectors	4 x sliding routing switches
Attenuator	Rotary knob, selectable

### Signal Connections

Control inputs	3 x 3.5 mm jacks, summed
Impedance	100 k $\Omega$ unbalanced
CV range	1 V / octave, $\pm 10$ V maximum
External input	1 x 3.5 mm jack, summed with CV inputs
Impedance	20 k $\Omega$ unbalanced
Attenuation	$-\infty$ to unity gain
Control outputs	3 x 3.5 mm parallel jacks
Impedance	10 $\Omega$ unbalanced
Maximum output level	$\pm 10$ V

### Power

Power supply	Eurorack
Current draw	5 mA (+12 V), 5 mA (-12 V)

### Physical

Dimensions	40 x 129 x 35 mm (1.6 x 5.1 x 1.4")
Rack units	8 HP
Weight	0.09 kg (0.20 lbs)

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