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behringer CM1A 16 Bit MIDI to CV Converter Module for Eurorack

behringer CM1A 16 Bit MIDI to CV Converter Module for Eurorack User Guide

Contents

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Product Information

Specifications:

- **Product Name:** CM1A
- **Type:** High-Resolution 16-Bit MIDI to CV Converter Module for Eurorack
- **Version:** 4.0

Product Usage Instructions

Safety Instructions:

1. Please read and follow all instructions.
2. Keep the apparatus away from water, except for outdoor products.
3. Clean only with a dry cloth.
4. Do not block any ventilation openings. Install following the manufacturer's instructions.
5. Do not install near heat sources like radiators, heat registers, stoves, or other heat-producing apparatus.
6. Use only attachments/accessories specified by the manufacturer.

Controls:
The CM1A module has various controls:

1. Control 1
2. Control 2
3. Control 3

4. Control 4

5. Control 5

6. Control 6

Mode Select:
The Mode Select button on the rear panel allows configuration for different synth families by Behringer. LEDs indicate CV range and monophonic/duophonic operation. Press quickly to switch CV range, hold to switch between monophonic and duophonic.

Mode	LED Colors	Operation
Mode 1	Red/red	System 15/35/55 CV range, monophonic
Mode 2	Green/red	System 100/2500 series CV range, monophonic
Mode 3	Red/green	System 15/35/55 CV range, Dubophonic
Mode 4	Green/green	System 100/2500 series CV range, Dubophonic

Firmware Updates:
The module can receive firmware updates via the connection for MIDI control signals to the CV and Trig outputs.

Syntribe Application:
Download the SYNTHTRIBE application from behringer.com to adjust the pitch bend range, select MIDI channel and CV mode, adjust the note range (C0 to C9), and perform other calibrations.

FAQ:

Q: Where can I find warranty information?
A: For warranty terms and conditions, visit **community.musictribe.com/support**.

Safety Instruction

1. Please read and follow all instructions.

2. Keep the apparatus away from water, except for outdoor products.

3. Clean only with a dry cloth.

4. Do not block any ventilation openings. Install by the manufacturer's instructions.

5. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.

6. Use only attachments/accessories specified by the manufacturer.

7. Use only specified carts, stands, tripods, brackets, or tables. Use caution to prevent tip-overs when moving the cart/ apparatus combination.

8. Avoid installing in confined spaces like bookcases.

9. Do not place near naked flame sources, such as lighted candles.

10. Operating temperature range 5° to 45°C (41° to 113°F).

LEGAL DISCLAIMER

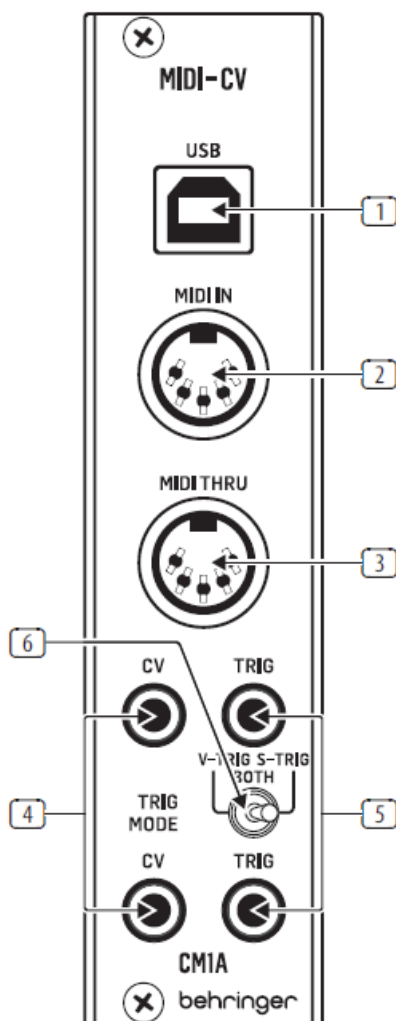Music Tribe accepts no liability for any loss that may be suffered by any person who relies either wholly or in part

LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding Music Tribe's Limited Warranty, please see complete details online at **community.musictribe.com/support**.

Controls

1. **USB** – Connect to a computer to transmit MIDI control signals to the CV and Trig outputs. The module can also receive firmware updates via this connection.
2. **MIDI** IN – Connect a MIDI controller to transmit signals to the CV and Trig outputs.
3. **MIDI THRU** – Pass the signals received at the MIDI In jack to other devices.
4. **CV** – Send control voltages received via USB or MIDI to other modules.
5. **TRIG** – Send trigger signals received via USB or MIDI to other modules.
6. **TRIG MODE** – Selects whether the Trig outputs function as V-trig or S-trig. In the middle position, the upper output functions as S-trig and the lower output functions as V-trig.
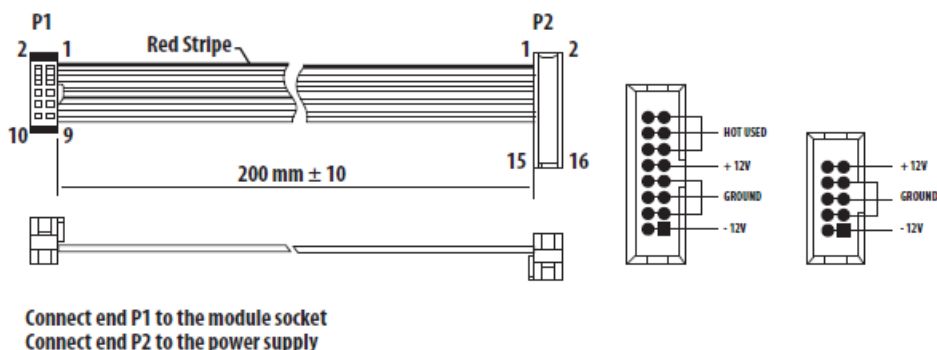
Mode Select

- A button on the rear panel allows the CM1A to be configured for use with various synth families offered by Behringer. The first LED indicates whether the CV range is optimal for System 15/35/55 or System 100/2500 series modules.
- The second LED indicates monophonic or duophonic operation.
- Press the button quickly to switch the CV range, or press and hold to switch between monophonic and duophonic.

Mode	LED colours	Operation
Mode 1	Red/red	System 15/35/55 CV range, monophonic
Mode 2	Green/red	System 100/2500 series CV range, monophonic
Mode 3	Red/green	System 15/35/55 CV range, Dubophonic
Mode 4	Green/ green	System 100/2500 series CV range, Dubophonic

SYNTHTRIBE
Download the SYNTHTRIBE application from behringer.com to adjust the pitch bend range, select MIDI channel and CV mode, adjust the note range (C0 to C9), and other calibrations.

Power Connection

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

The CM1A 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.1. Turn the power supply or rack case power off and disconnect the power cable.
5. 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.

6. 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.

7. 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 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 is 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

Outputs

CV

Type	2 x 3.5 mm TS jack, DC coupled
Impedance	100 Ω
Max output level	-6.3 V to +10 V
CV range, System 100, 2500 series mode	-1 V to +9 V, 1 V/octave
CV range, System 15, 35, 55 mode	-5.3 V to +4.7 V, 1 V/octave
CV modes	output

Trig

Type	2 x 3.5 mm TS jack, DC coupled
Impedance	25 Ω
Max output level	+5 V when in V-Trig mode, S-Trig = pull down to 0 V
Trig modes	V-Trig, S-Trig, both: upper = S-Trig, lower = V-Trig

MIDI

Type

- 2 x 5-pin DIN
- MIDI IN and MIDI THRU
- MIDI Channel (1 to 16) set via SynthTribe tool

USB

- Type USB 2.0, Type B

Mode select (rear panel)

Mode 1, underside LEDs = red/red	System 15, 35, 55 CV range, monophonic
Mode 2, underside LEDs = green/red	System 100, 2500 series CV range, monophonic
Mode 3, underside LEDs = red/green	System 15, 35, 55 CV range, Dubophonic
Mode 4, underside LEDs = green/green	System 100, 2500 series CV range, Dubophonic

Power

Power supply	Eurorack
Current draw	70 mA (+12 V), 10 mA (-12 V)

Physical

Dimensions	30 x 129 x 520 mm (1.18 x 5.08 x 20.47")
Rack units	6 HP
Weight	0.09 kg (0.19 lbs)

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

1. Behringer
2. CM1A

- **Responsible Party Name:** Music Tribe Commercial NV Inc.
- **Address:** 122 E. 42nd St.1, 8th Floor NY, NY 10168, United States
- **Email Address: legal@musictribe.com**.

CM1A

This equipment has been tested and found to comply with the limits for a Class B digital device, under part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used by the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

Important information:

- Changes or modifications to the equipment not expressly approved by Music Tribe can void the user's authority to use the equipment.
- Hereby, Music Tribe declares that this product complies with Directive 2014/30/EU, Directive 2011/65/EU and Amendment 2015/863/EU, Directive 2012/19/EU, Regulation 519/2012 REACH SVHC and Directive 1907/2006/EC.
- Full text of EU DoC is available at **https://community.musictribe.com/**.
- **EU Representative:** Music Tribe Brands DK A/S
- **Address:** Gammel Strand 44, DK-1202 København K, Denmark
- **UK Representative:** Music Tribe Brands UK Ltd.

- **Address:** 8th Floor, 20 Farringdon Street London EC4A 4AB, United Kingdom.

Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection centre licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office or your household waste collection service.

Made in China.

Documents / Resources

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CM1A 16 Bit MIDI to CV Converter Module for Eurorack, CM1A, 16 Bit MIDI to CV Converter Module for Eurorack, Converter Module for Eurorack, Module for Eurorack

References

- **be** **Behringer | Home**
- **m** **Music Tribe**
- **m** **Music Tribe**
- **m** **Music Tribe**
- **User Manual**