

# MIDI To TRS Box (MTR-5)

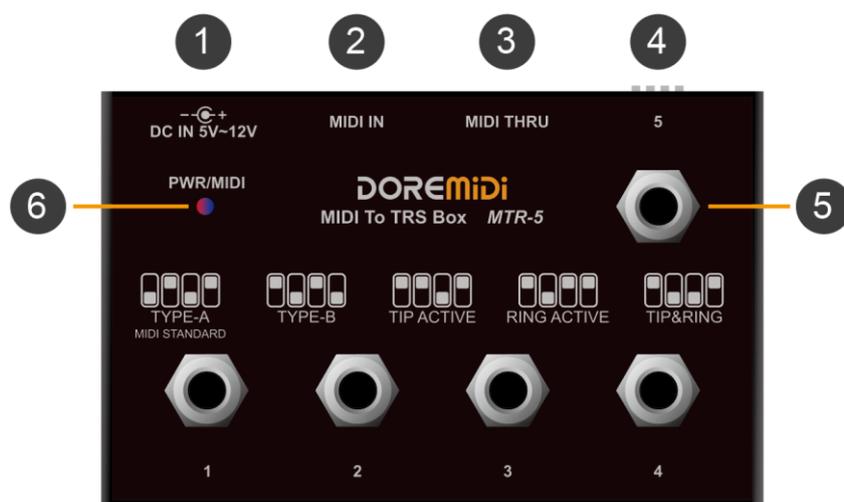


## Instructions

## 1. Introduction

MIDI to TRS box (MTR-5) is a product designed by DOREMiDi to convert MIDI five-pin DIN interface into TRS interface. The MTR-5 can convert one MIDI input into five TRS outputs. The TRS interface of the MTR-5 has five type selector switches, which are compatible with the TRS interfaces of different instruments. The MTR-5 has a built-in high-speed opto-isolator to protect the instrument interface and transmit MIDI messages quickly.

## 2. Appearance



- ① DC IN: Product power supply interface, use DC plug to supply power to the product, power supply voltage 5V~12V. ( Center-positive power supply)
- ② MIDI IN: MIDI input interface, using a standard five-pin MIDI cable, connected to the output interface of the MIDI device.
- ③ MIDI THRU: MIDI output interface, using a standard five-pin MIDI cable, connected to the input interface of the MIDI device.
- ④ SWITCH: selector switch, select different types of TRS interfaces, each TRS interface has a selector switch.
- ⑤ TRS: MIDI output interface, a total of 5 MIDI TRS output interfaces, connected with a 6.35 interface cable;.
- ⑥ PWR/MIDI: Power supply/MIDI communication indicator, the red indicator is always on after power is supplied, and the blue indicator flashes when there is MIDI message communication.

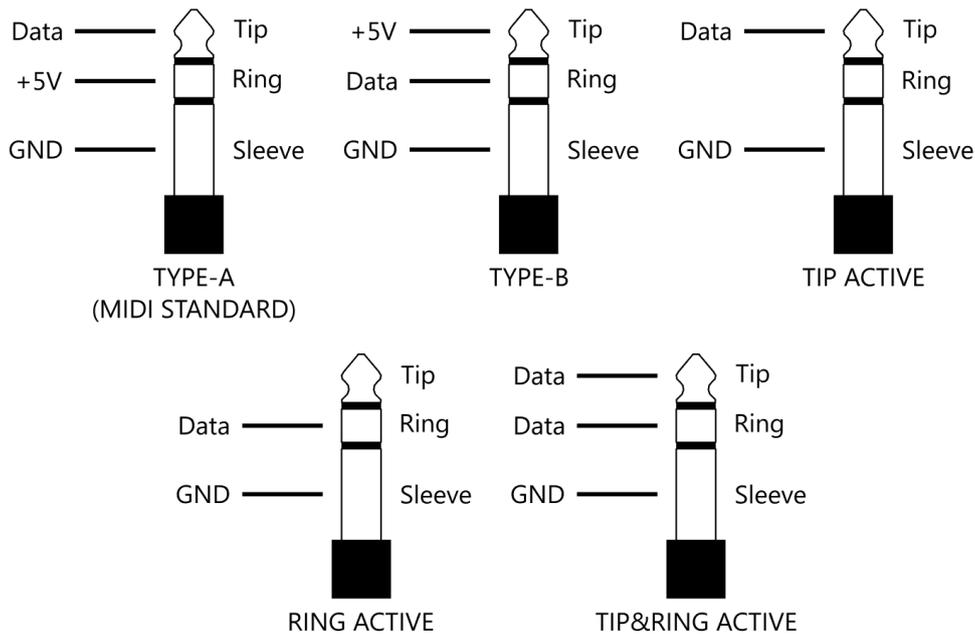
## 3. Steps for usage

- 1) Power supply: Use a 5V~12V DC power supply to supply power to the product through the "DC IN", and the indicator lights up after power is supplied.
- 2) Connect the instrument to the MIDI five-pin DIN interface: The "MIDI IN" of the MTR-5 is connected to the "MIDI OUT" of the MIDI device. The "MIDI THRU" of the MTR-5 can output the MIDI messages of "MIDI IN" to connect more MTR-5 or other MIDI devices.

- 3) Select the type of TRS interface: Users can select the desired TRS type through the "SWITCH" of TRS-5 according to the TRS interface type of their own instruments. The MTR-5 has five TRS types to choose from.
- 4) Connect the MIDI device to the TRS interface: Using a 6.35mm cable, connect the MTR-5 to a MIDI device with a TRS input.

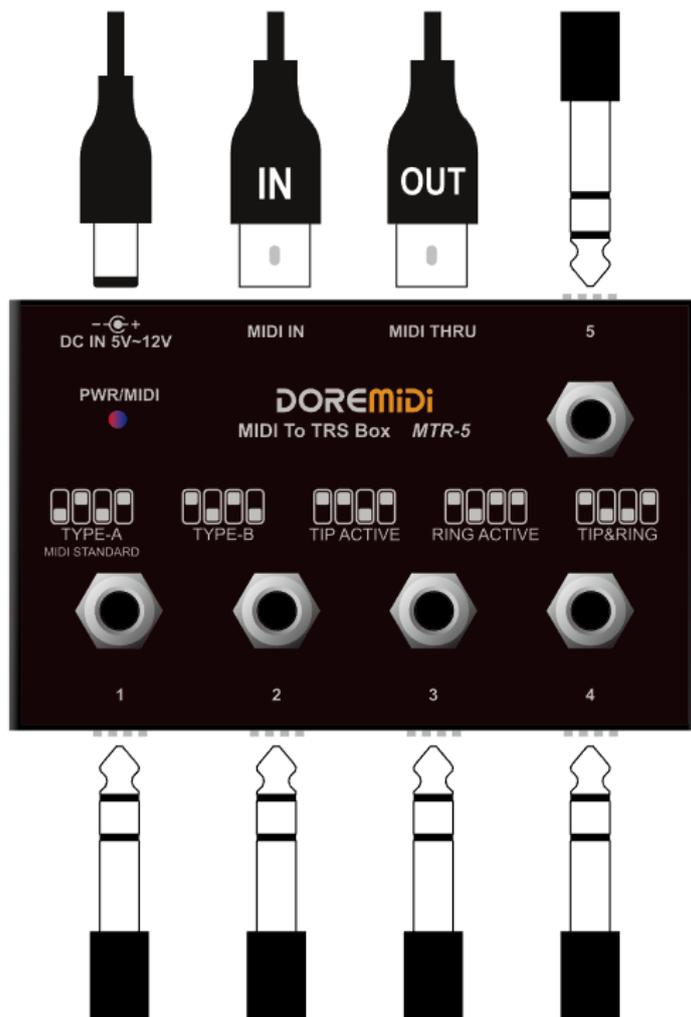
#### 4. Description of TRS type

Please select the corresponding type through the SWITCH of the MTR-5 according to the type of the TRS interface of your instrument. The MTR-5 provides five TRS interface modes to meet the MIDI devices of various TRS interface types, as shown in the figure:



- 1) **TYPE-A:** Type-A is a standard formulated by the MIDI Association. Tip outputs MIDI messages, Ring is connected to +5V, and Sleeve is grounded. Most instruments will use this interface type, such as Korg, Make Noise, BOSS, Jackson Audio, etc.
- 2) **TYPE-B:** Tip is connected to +5V, Ring outputs MIDI messages, and Sleeve is grounded. Some instrument manufacturers use this type, such as Arturia (BeatStep Pro), Novation (Launchpad Pro), 1010music, etc.
- 3) **TIP ACTIVE:** Tip outputs MIDI messages, Ring is not connected, Sleeve is grounded, this type is used for some musical instruments that do not require power supply MIDI ports, and MIDI messages are communicated through Tip, such as Alexander Pedals, Meris, Empress Effects, Bondi Effects, etc. .
- 4) **RING ACTIVE:** Tip is not connected, Ring outputs MIDI messages, and Sleeve is grounded. This type is used for some instruments that do not require a MIDI port for power supply, and communicate MIDI messages through Ring, such as Chase Bliss Audio, etc.
- 5) **TIP&RING ACTIVE:** Both Tip and Ring output MIDI messages, and Sleeve is grounded. This type can be connected to a Y-type TRS cable to split a stereo TRS jack into 2 outputs.

## 5. Connection



## 6. Product Parameters

Name	Description
Model	MTR-5
Size (L x W x H)	115*73*33mm
Weight	240g
Standby Power Consumption	Ultra-low standby power consumption, 6mA@5V
Working Power Consumption	Ultra-low working power consumption, 9mA@5V
MIDI Compatibility	Compatible with all musical instruments with MIDI standard interface, compatible with all MIDI type messages
MIDI Transmission	MTR-5 uses hardware pass-through, all MIDI messages can be communicated with no delay, high fidelity
MIDI TRS	Five types of TRS interface types
DC In Interface	Powered by DC interface, 5V~12VDC
Indicator Light	Product power indicator, MIDI communication indicator

## 7. Precautions

- 1) This product contains a circuit board.
- 2) Rain or immersion in water will cause the product to malfunction.
- 3) Do not heat, press, or damage internal components.
- 4) Non-professional maintenance personnel shall not disassemble the product.
- 5) If the product is disassembled or damaged by improper use, the warranty is not available.

## 8. Questions & Answers

- 1) Question: Is it possible to power the MTR-5 via MIDI IN?  
Answers: Yes, if the MIDI IN interface has 5V, it can supply power to the MTR-5. If the device connected to the MIDI OUT of the MTR-5 also needs power supply or there are too many MIDI devices connected, the power supply may be insufficient. Please judge whether the MTR-5 needs to be powered independently through USB-B according to the actual situation.
- 2) Question: Can the MTR-5's MIDI OUT (MIDI THRU) supply power to MIDI devices?  
Answers: 5V power supply can be provided, but the power supply power is not high. If the external MIDI device requires a higher voltage, it is recommended to provide additional power supply.
- 3) Question: After connecting multiple MIDI TRS ports, the communication is delayed or lost.  
Answers: Please check the MTR-5 and the external MIDI equipment, whether the power supply is normal; check whether the MIDI cable is firm.
- 4) Question: After connecting multiple MIDI TRS interfaces, no MIDI messages are received.  
Answer: Please check whether the type of MIDI device and the TRS interface of the MTR-5 are the same, and check whether the connection of the TRS interface is firm.

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