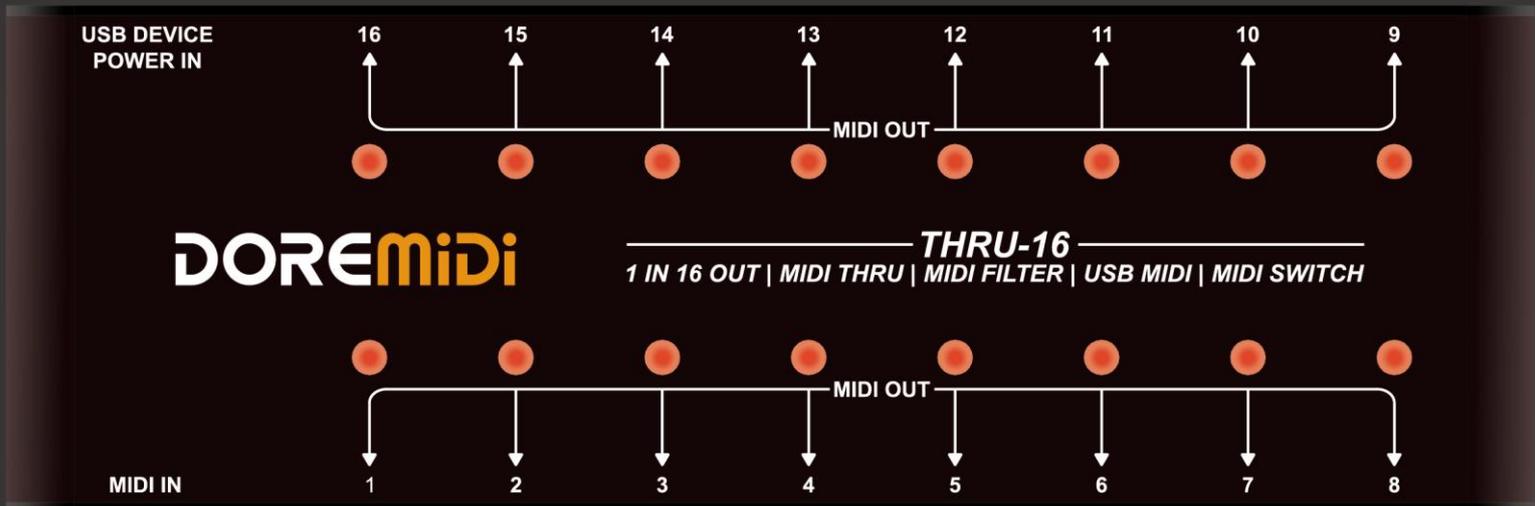


MIDI THRU-16 Box

THRU-16

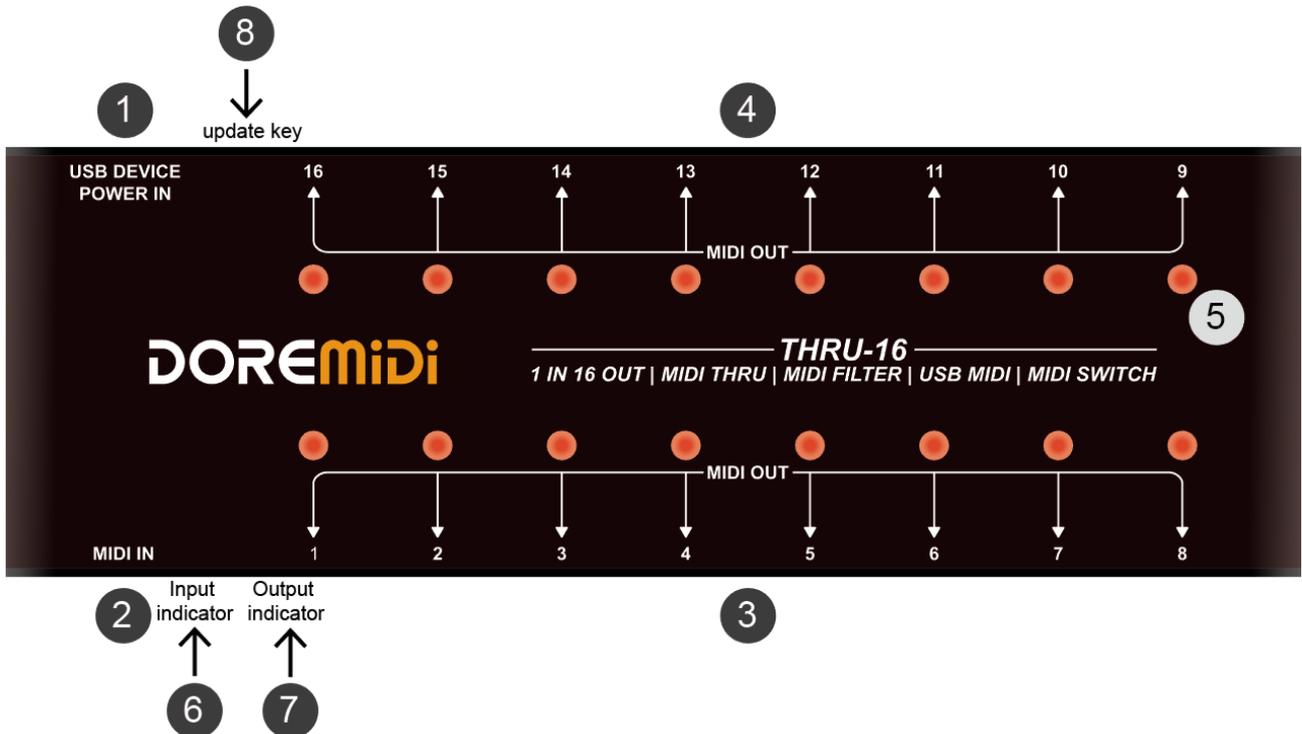


Instructions

1. Product Introduction

The MIDI THRU-16 box (THRU-16) is a MIDI splitter + filter designed by DOREMiDi. It can be used to convert 1 MIDI input into 16 MIDI outputs, and each MIDI output can edit MIDI filters. Each MIDI output of THRU-16 is equipped with a switch and indicator light to quickly turn on/off the MIDI output. THRU-16 supports the input of various standard MIDI commands, including MIDI notes, MIDI CC controllers, MIDI PC, MIDI clock, MIDI time code, and MIDI SysEx, etc.

2. Appearance



① **POWER IN:** Use a USB-B plug to power the product, the supply voltage is 5V. The indicator light flashes after power supply, and the indicator light is always on if connected to a computer.

② **MIDI IN:** MIDI input port, use a standard five-pin MIDI cable to connect to the output port of the MIDI device.

③ ④ **MIDI OUT 1-16:** MIDI output ports, use a standard five-pin MIDI cable to connect to the input port of the MIDI device.

⑤ **MIDI SWITCH:** MIDI output switch, which can quickly turn on/off MIDI output. It has a red indicator light, which lights up when MIDI output is turned on and goes out when it is turned off.

⑥ **Input indicator:** MIDI input indicator, flashes when there is MIDI message input.

⑦ **Output indicator:** MIDI output indicator, flashes when there is MIDI message output.

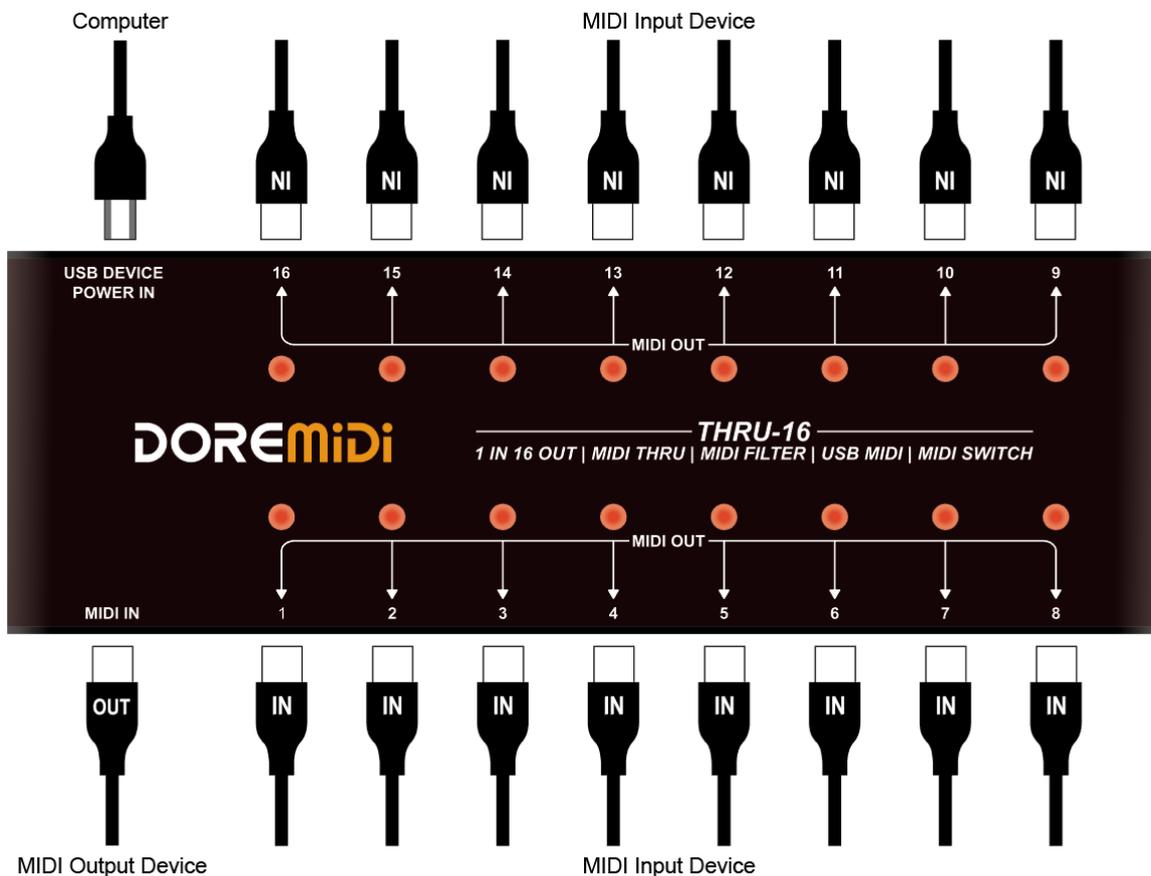
⑧ **Update Key:** Firmware upgrade button, press and hold to power on the product, the product will enter the upgrade mode, and the indicator will flash quickly.

3. Product Parameters

Name	Description
Model	THRU-16
Size(L x W x H)	224*75*35mm
Weight	470g
Power Consumption	80mA@5V
MIDI Port	1 MIDI input, 16 MIDI outputs, configurable MIDI filtering, standard MIDI five-pin ports.
Power In Port	Powered by USB-B port, 5VDC
Indicator Light	USB working indicator, MIDI IN indicator, MIDI OUT indicator, MIDI output switch indicator.
MIDI Compatibility	Compatible with all musical instruments with MIDI standard port
Firmware Upgrade	Support firmware upgrade.

4. Connection diagram

Supports up to 1 MIDI input and 16 MIDI outputs simultaneously.

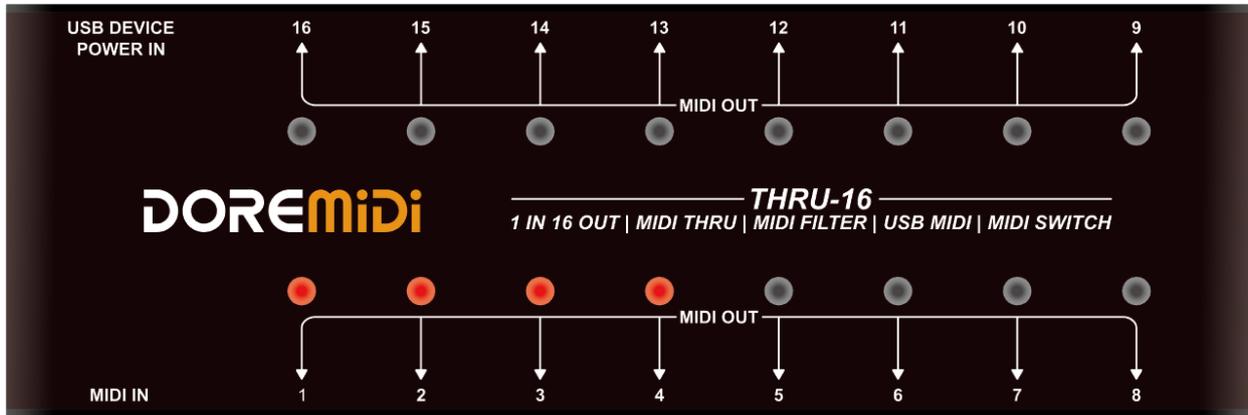


5. Step for usage

- 1) Use a 5V USB power supply to power the product through the USB-B port of "POWER IN". The USB-B port of THRU-16 has USB MIDI function and can also be connected to a computer for power supply.
- 2) Connect MIDI input device: Use a standard five-pin MIDI cable to connect the MIDI OUT port of the MIDI device to the MIDI IN port of the THRU-16.

- 3) Connect MIDI output device: Connect the MIDI OUT of the THRU-16 to the MIDI IN of the MIDI device using a standard five-pin MIDI cable.
- 4) Quickly turn on/off MIDI output

As shown in the figure, turn on the MIDI output of MIDI OUT 1~4, the indicator lights will light up, and turn off MIDI OUT 5~16.



6. Connect to computer

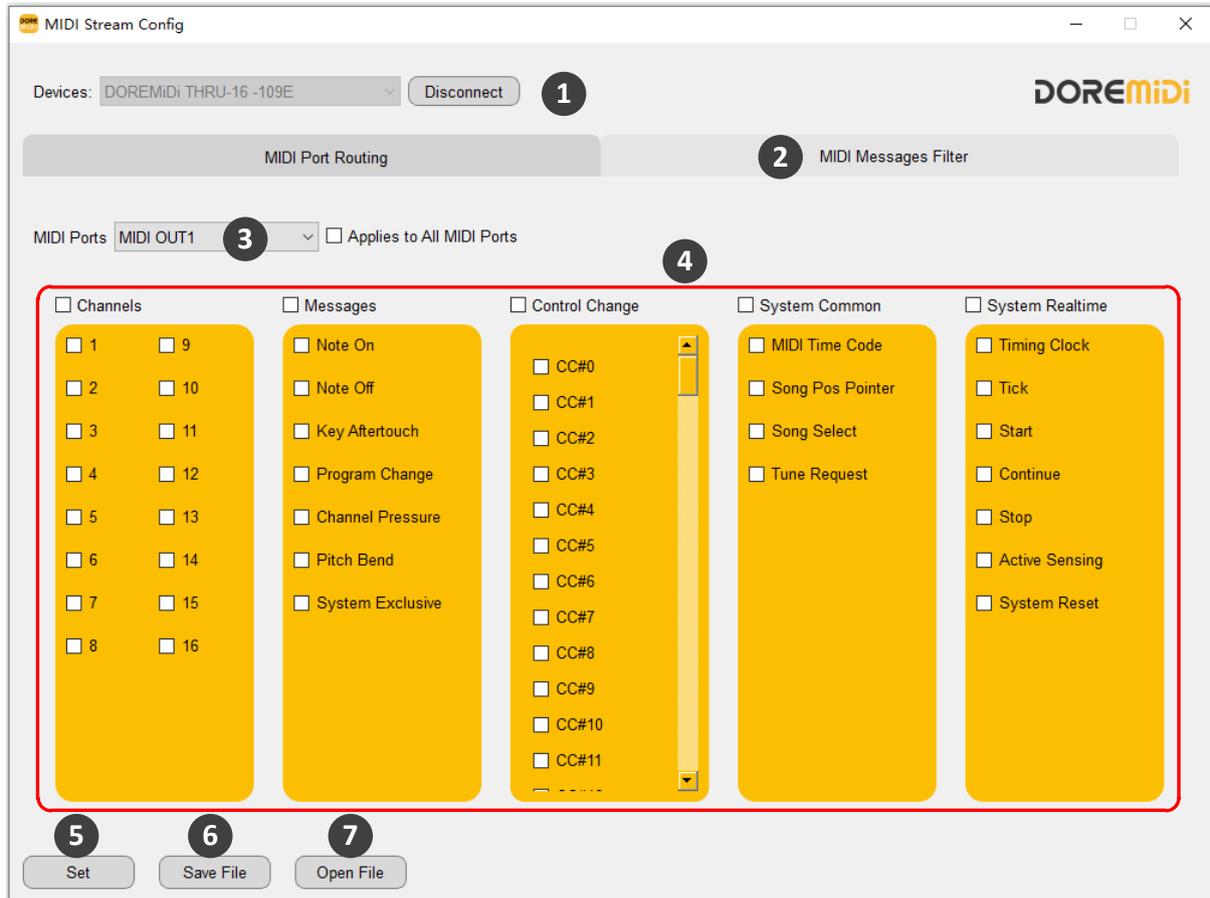
The USB DEVICE of THRU-16 is a USB class compliant device that supports connecting to a computer and being used as a USB MIDI device. When connected to a computer, THRU-16 has 1 MIDI input and 16 MIDI outputs to choose from. The computer's MIDI port name is mapped to the MIDI port of THRU-16 as follows:

MIDI IN/OUT	Computer MIDI Port Names	THRU-16 Ports
MIDI Inputs	DOREMiDi THRU-16-****	MIDI IN
MIDI Outputs	DOREMiDi THRU-16-****	MIDI OUT1
	MIDIOUT 2 (DOREMiDi THRU-16-****)	MIDI OUT2
	MIDIOUT 3 (DOREMiDi THRU-16-****)	MIDI OUT3
	MIDI OUT 4 (DOREMiDi THRU-16-****)	MIDI OUT4
	MIDI OUT 5 (DOREMiDi THRU-16-****)	MIDI OUT5
	MIDI OUT 6 (DOREMiDi THRU-16-****)	MIDI OUT6
	MIDI OUT 7 (DOREMiDi THRU-16-****)	MIDI OUT7
	MIDI OUT 8 (DOREMiDi THRU-16-****)	MIDI OUT8
	MIDI OUT 9 (DOREMiDi THRU-16-****)	MIDI OUT9
	MIDI OUT 10 (DOREMiDi THRU-16-****)	MIDI OUT10
	MIDI OUT 11 (DOREMiDi THRU-16-****)	MIDI OUT11
	MIDI OUT 12 (DOREMiDi THRU-16-****)	MIDI OUT12
	MIDI OUT 13 (DOREMiDi THRU-16-****)	MIDI OUT13
	MIDI OUT 14 (DOREMiDi THRU-16-****)	MIDI OUT14
	MIDI OUT 15 (DOREMiDi THRU-16-****)	MIDI OUT15
	MIDI OUT 16 (DOREMiDi THRU-16-****)	MIDI OUT16

Note: The suffix "****" is a unique product identifier.

7. Configure MIDI filtering

By using the "MIDI Stream Config" software, THRU-16 can configure the MIDI message filtering function of MIDI OUT 1~16. "MIDI Stream Config" software can be downloaded at www.doremidi.cn. As shown in the picture:



- 1 Select the DOREMiDi device and click "Connect".
- 2 Select "MIDI Messages Filter".
- 3 Select the MIDI port that needs to be filtered. If all MIDI ports filter the same content, you can select "Applies to All MIDI Ports".
- 4 Select the content to be filtered, please refer to the following:

Filter Type	Description
Channels	MIDI channel, filter all messages of this MIDI channel.
Messages	MIDI message type, filter MIDI messages of this type in all MIDI channels.
Control Change	MIDI CC controller, filter the messages of this MIDI CC controller in all MIDI channels.
System Common	MIDI system messages, filter MIDI messages of this type.
System Realtime	MIDI system real-time time message, will filter this type of MIDI message.

- 5 Set, after selecting the filter item, you need to click "Set" to complete the filter configuration.
- 6 Save File, after configuration and filtering, it can be saved as a file for quick recall in the future.
- 7 Open File, open the filter configuration file.

1. 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.

2. Questions & Answers

- 1) Question: Can USB-B be connected to a computer to communicate MIDI?

Answer: Yes, USB-B is used to power the product and configure filtering, and it have MIDI communication function.

- 2) Question: The messages output by MIDI OUT will be disordered, lost, or delayed, etc.

Answer: Please check as follows:

- Check the power supply: Please check whether the power supply of THRU-16 is 5V/1A, and whether the power supply of external MIDI equipment is normal.
 - Please check whether the filtering configuration of MIDI messages is correct and whether the required MIDI messages are filtered.
- 3) Question: THRU-16 is not recognized when connected to the computer.

Answer: Please install the driver "Virtual COM Port Driver V1.5.0.zip", which can be downloaded from the official website: www.doremidi.cn

If not resolved, please contact customer service.

Manufacturer: Shenzhen Huashi Technology Co., Ltd.

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Post Code: 518105

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