

High-Speed USB MIDI HOST (UMH-21)

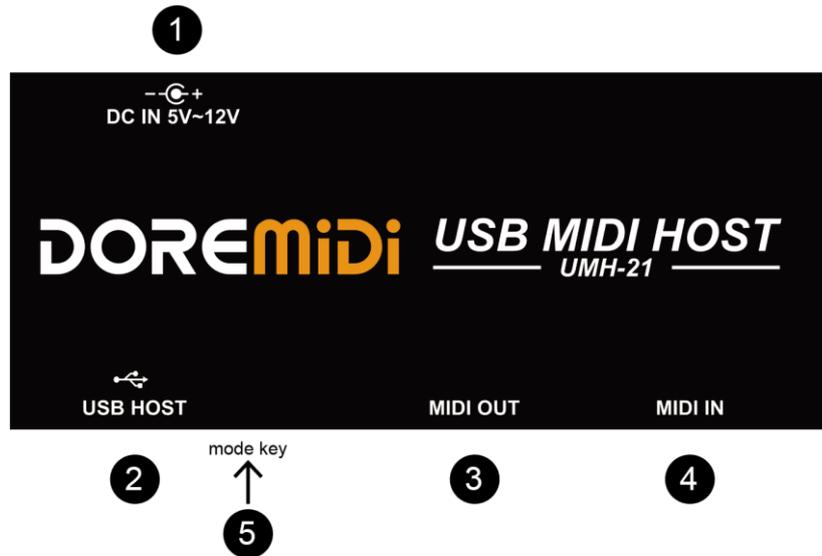


Instruction

1. Introduction

High-speed USB MIDI HOST box (UMH-21) is a new generation of USB MIDI host box launched by DOREMiDi. This product has standard high-speed USB2.0, which has the characteristics of strong compatibility, fast transmission rate and high stability. The product has a firmware upgrade function and is perfectly compatible with all devices with a USB MIDI interface. The USB HOST interface of UMH-21 supports connecting to a USB hub in the future, and expands to connect more USB MIDI devices.

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 USB HOST: High-speed USB2.0 host interface, through the USB-A plug, connect to MIDI devices with USB MIDI device.
- ③ MIDI OUT: MIDI output interface, using a standard five-pin MIDI cable, connected to the input interface of the MIDI device.
- ④ MIDI IN: MIDI input interface, using a standard five-pin MIDI cable, connected to the output interface of the MIDI device.
- ①②③④: Work indicator for each interface.
- ⑤ Mode Key: Used to switch Normal mode/MERGE mode/Firmware upgrade mode.

3. Product Parameters

Name	Description
Model	UMH-21
Size (L x W x H)	115*53*33mm
Weight	150g
Power Consumption	50mA@5V
USB HOST	480Mbps(60MB/s)

Communication Rate	
USB HOST Version	Standard high-speed USB MIDI HOST interface (USB2.0)
USB HOST Compatibility	Compatible with all USB MIDI devices USB2.0/USB1.0/USB1.1
USB HOST Power Output	Provides a power supply of up to 5V/2A
MIDI Interface	High-performance FTP processing with one input and one output 16-channel MIDI interface, Built-in high-speed Isolator
MIDI Compatibility	Compatible with all musical instruments with MIDI standard interface
DC In Interface	Powered by DC interface, 5V~12VDC
Indicator Light	Product power indicator, USB working indicator, MIDI output/output indicator
Firmware Upgrade	Support firmware upgrade

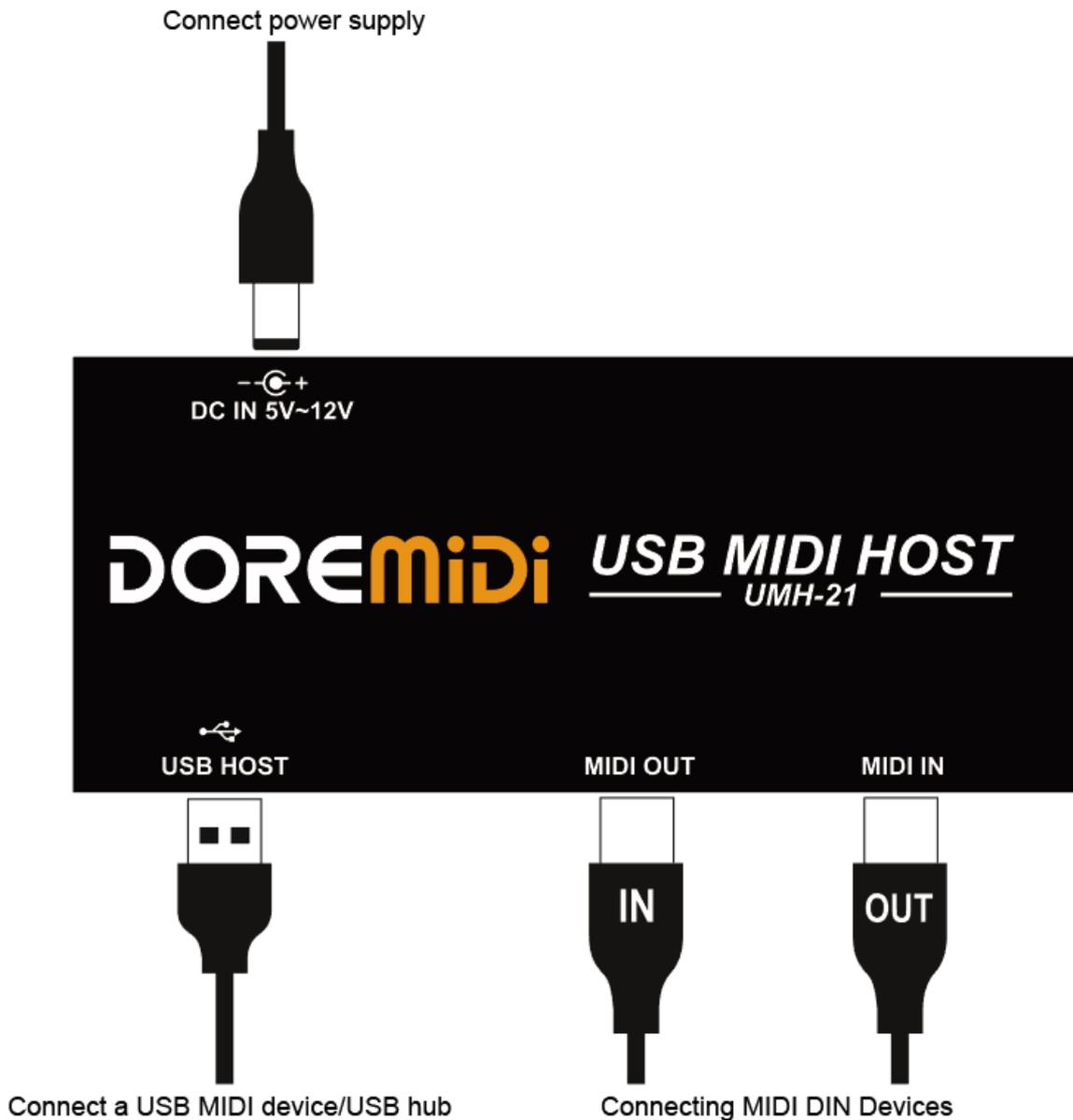
4. Steps for usage

- 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 a USB MIDI instrument: Connect a USB MIDI instrument through the USB-A interface of "USB HOST". After the connection is successful, the indicator of "USB HOST" will light up.
- 3) Connect MIDI DIN instruments: The "MIDI OUT" of the UMH-21 is connected to the "MIDI IN" of the MIDI device, and the "MIDI IN" of the product is connected to the "MIDI OUT" of the MIDI device. When the MIDI interface has MIDI message output/input, the indicator light of the MIDI interface will flash.
- 4) Connect the USB hub:
 - Connect a USB MIDI hub through the USB-A interface of the "USB HOST". After the connection is successful, the "USB HOST" indicator will light up.
 - UMH-21 supports a USB hub with a maximum of 4 USB ports. It is recommended to use DOREMidi's USB HUB-4 hub for better.
- 5) Switch Normal mode/Merge mode/Upgrade mode:

Mode	Description
Normal	Click the "Mode key" toggle, Normal mode is used by default. MIDI message direction: USB HOST → MIDI OUT MIDI IN → USB HOST
Merge	Click the "Mode key" toggle, and the MIDI OUT indicator lights up. MIDI message direction: USB HOST → MIDI OUT MIDI IN → MIDI OUT In Merge mode, SysEx supports up to 2048Bytes/packet.
Upgrade	Press and hold the "Mode Key", then power on the UMH-21, then release the "Mode Key", the USB HOST indicator lights up. Use the "DOREmidi Upgrade Tool" software to upgrade UMH-21. For detailed steps, please refer to "UMH-21 Upgrade Instructions"

(Note: After UMH-21 is configured in normal mode and merge mode, the mode will be maintained after power cycle. When upgrading mode, it will return to the previous mode after power cycle.)

5. Connection



6. 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.

7. Questions & Answers

1) Question: Can the USB HOST interface provide power to USB MIDI instruments?

Answers: It can be powered, but pay attention to whether the power input of "DC IN" can meet the working requirements of USB MIDI instruments.

2) Question: USB HOST interface does not work.

Answers: Please follow the steps below:

- Make sure that the power indicator of "DC IN" is on.
- Make sure that the instrument can work normally and the instrument's USB interface is equipped with MIDI functions (for example, the connection can recognize MIDI devices).
- Try to supply power to the product through "DC IN" first, and then connect to the instrument through "USB HOST", and see if the indicator light of "USB HOST" lights up.
- If the "USB HOST" indicator still does not light up, or MIDI messages cannot be transmitted after it's on, please contact customer service to solve it.

3) Question: The MIDI OUT/IN connector does not work.

Answers: Please follow the steps below:

- Make sure that the "MIDI OUT" of the product is connected to the "MIDI IN" of the instrument, and the "MIDI IN" of the product is connected to the "MIDI OUT" of the instrument.
- When the MIDI interface has MIDI message output/input, the indicator light of the MIDI interface will flash.
- If the indicator light of the MIDI interface does not flash, please contact customer service to solve it.

4) Question: After connecting multiple devices to the USB HUB, the work is unstable.

Answer: Please follow the steps below:

- If the instrument is powered by the USB library of the USB HUB, please check whether the power input power of "DC IN" can meet the working requirements of the USB MIDI instrument.
- Please try to supply additional power to the USB HUB.

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