

MIDI To DMX BOX (MTD-1024)

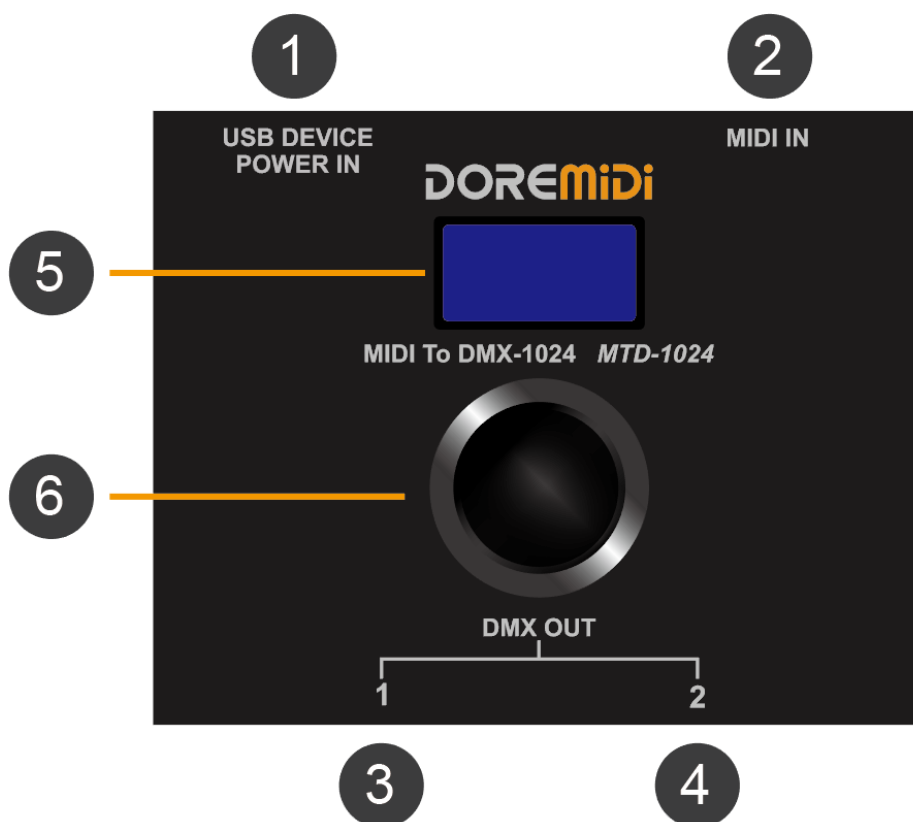


Instruction

1. Introduction

MIDI to DMX controller (MTD-1024) can convert MIDI messages to DMX messages. Supports MIDI Note/CC/After Touch MIDI messages, can map the value of MIDI messages to DMX channels, and can configure up to 1024 DMX channels. MTD-1024 can be used for MIDI performance, DMX lighting control scene.

2. Appearance



- 1** USB DEVICE: Product power supply port, power supply voltage 5VDC, current 1A, with USB MIDI function, it can also be connected to computers/mobile phones and other terminals to receive MIDI messages.
- 2** MIDI IN: MIDI DIN input port, use a five-pin MIDI cable to connect an instrument with MIDI OUT.
- 3** DMX OUT1: DMX output port, connect the device with DMX IN port through 3Pin XLR cable.
- 4** DMX OUT2: DMX output port, connect the device with DMX IN port through 3Pin XLR cable.
- 5** Display Screen: OLED display screen, showing the working status of MTD-1024.
- 6** Knob: Knob with button function, through rotation and click, configure the working of MTD-1024.

3. Product Parameters

Name	Description
Model	MTD-1024
Size (L x W x H)	88*79*52mm
Weight	180g
Supply Voltage	5VDC
Supply Current	
USB MIDI Compatibility	Standard USB MIDI device, compliant with USB class, plug and play.
MIDI IN Compatibility	Built-in high-speed optical isolator, compatible with all MIDI five-pin output interfaces.
DMX Channel	Support 1024 channel configuration, each DMX output port has 512 channels. DMX OUT1: 1~512 DMX OUT2: 513~1024.

4. Steps for usage

4.1. Power supply

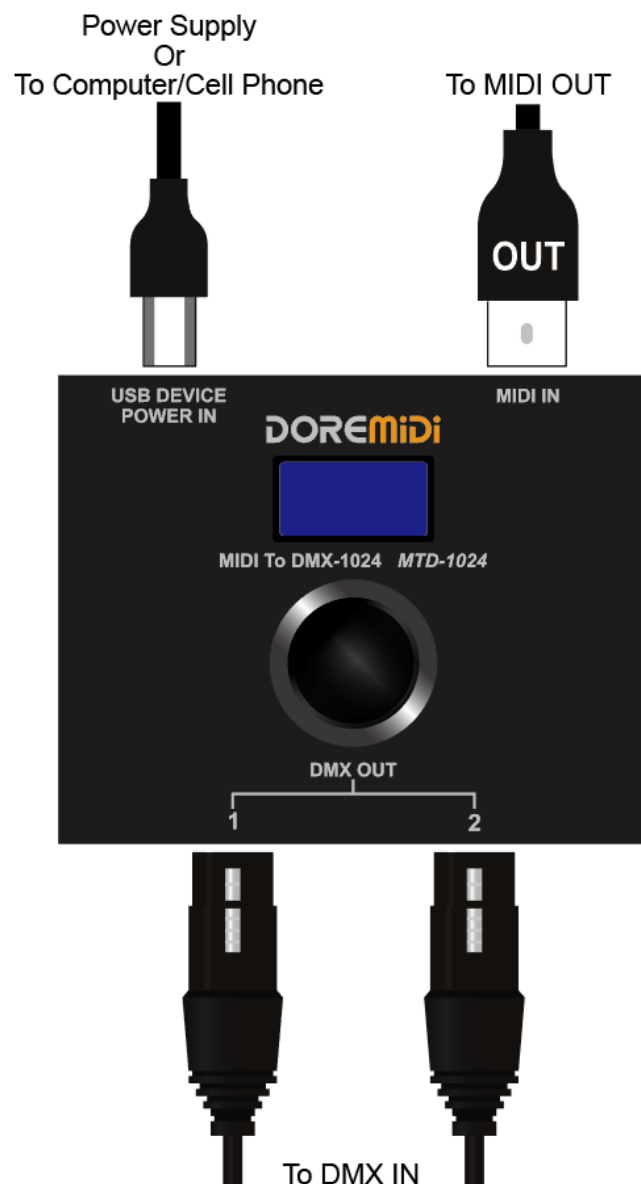
- Supply power to the product through the USB port, support 5VDC/1A power supply input.

4.2. Connect

- Connect MIDI five-pin instrument: Connect the MIDI IN of the product to the MIDI OUT of the instrument through a MIDI five-pin cable.
- Connect to computer/mobile phone: If playing MIDI messages via software, it can be connected to a computer/mobile phone via USB.

(Note: The mobile phone needs to have OTG function, and different mobile phone interfaces need to be connected through an OTG converter.)

- Connect DMX device: Connect DMX OUT1 and DMX OUT2 to the input port of DMX devices through 3Pin XLR cable.



4.3. Configure MIDI to DMX

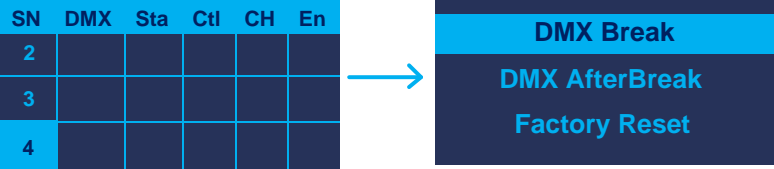

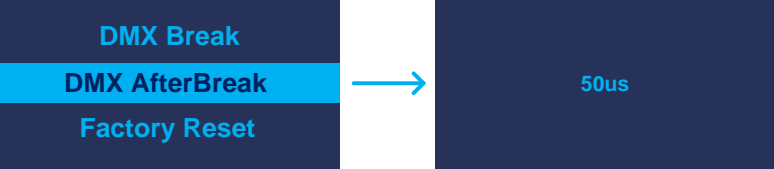
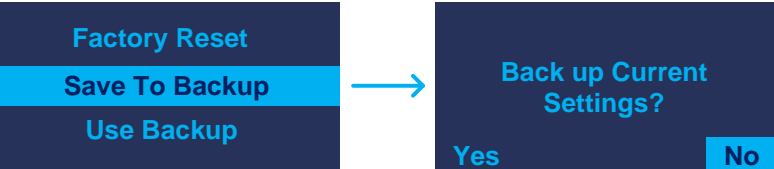
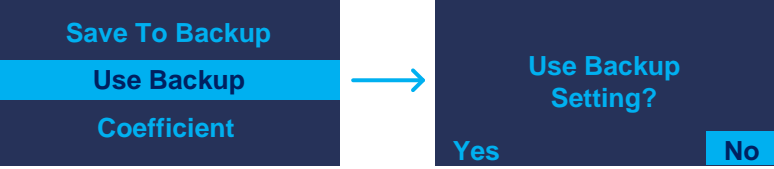
- Click the knob to select SN / DMX / Sta / Ctl / CH / En / Fix / Fad / Tog, and rotate the knob to set parameters. After setting, the received MIDI message value 0~127 will output the corresponding DMX channel value 0~255, that is, DMX value = MIDI value x 2.01 (the coefficient defaults to 2.01 and can be changed). As shown in the table:

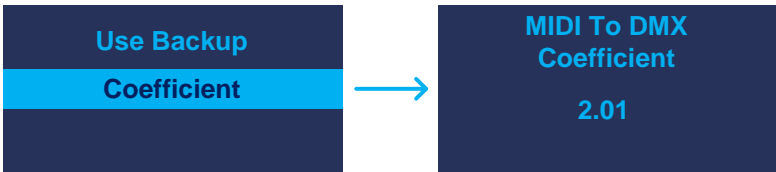

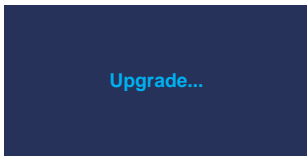
SN	DMX	Sta	Ctl	CH	En	Fix	Fad	Tog
1	2	Note	0	All	0	0	0	0
2								
3								

Display	Name	Description
SN	Serial Number	Display and configure the parameters of the current serial number. Parameter range: 1~1024
DMX	DMX Channel	Configure the DMX channel. Parameter range: 1~1024. DMX OUT1: 1~512 DMX OUT2: 513~1024.(The output is DMX channel 1~512)
Sta	MIDI Status	Configure the MIDI status byte. Parameter range: Note/AT/CC. Note: MIDI Notes, DMX channel value = MIDI note velocity value x2.01. CC: MIDI Continuous Controller, DMX channel value = MIDI controller value x 2.01. AT: MIDI After Touch, DMX channel value = MIDI AfterTouch value x2.01.
Ctl	MIDI Controller/Note Number	Configure MIDI controller/note numbers. Parameter range: 0~127. When Sta = Note/AT, Ctl is the note number. When Sta = CC, Ctl is the controller number.
CH	MIDI Channel	Configure MIDI channels for MIDI messages. Parameter range: All, 1~16, default All. All: Means to respond to messages on all MIDI channels.
En	Enable switch	Configure to enable the parameters of this serial number (SN). 1: enable. 0: disable enable.
Fix	Fixed DMX Value	Set the fixed output DMX value. When a MIDI message is received, DMX outputs a fixed value. Parameter range: 0~255; 0: Turn off fixed conversion. 1~255: Output DMX value;
Fad	DMX Fade out	After the fade-out function is turned on, when the DMX channel output is turned off, the DMX value gradually decreases to 0. Parameter range: 0~50 0: Turn off gradient. 1~50: Set the fade-out speed. The larger the value, the faster the fade-out.
Tog	DMX Toggle	After turning on the toggle function, the DMX output will be turned on when the MIDI value is received for the first time, and the DMX output will be turned off when the MIDI value is received for the second time. 1: enable. 0: Disable enable.

Note: ①A new serial number will only be added after the existing serial number has been configured.
 ②Select a serial number, press and hold the knob for 2 seconds, and the configuration content of the serial number will be cleared.

● Other operations

Name	Description
System Settings	<p>Rotate the knob to the last serial number, press and hold the knob for 2 seconds to enter the DMX Break/DMX After Break/Factory Reset system setting.</p> 
DMX Break Time	<p>Turn the knob, click DMX Break, enter the DMX Break time setting, turn the knob to set the DMX Break time, click the knob to save. Parameter range: 100~1000us, default 100us.</p> 
DMX After Break Time	<p>Turn the knob, click DMX After Break, enter DMX After Break time setting, turn the knob to set DMX Break time, click the knob to save. Parameter range: 50~510us, default 100us.</p> 
Save To Backup	<p>Rotate the knob and click Save To Backup to back up the current MIDI to DMX configuration to prevent accidental touch.</p> 
Use Backup	<p>Turn the knob and click Use Backup to use the backed-up MIDI to DMX configuration.</p> 
Coefficient	<p>Rotate the knob and click Coefficient to set the MIDI to DMX conversion coefficient, that is, DMX value = MIDI value x Coefficient. Parameter range: 2/2.01/3/4/5, default 2.01.</p>

	
Factory Reset	<p>Turn the knob, click Factory Reset, enter the factory reset interface, turn the knob to select Yes/No, click the knob.</p> 
Enter Firmware Upgrade	<p>Press and hold the knob, then power on the product, the product will enter the upgrade mode. (Note: Please pay attention to the official website notification, if there is a firmware update.)</p> 

Note: In order to be compatible with more DMX receivers, MTD-1024 can set the DMX Break time, so that some slower DMX receivers can also be used normally. If you find that your DMX receiver receives wrong DMX signal, or does not receive DMX signal, please try to adjust DMX Break time and After Break time.

● **For example:**

If you want to control the DMX channel 1 with C4, MTD-1024 configuration is as follows:

SN	DMX	Sta	Ctl	CH	En
1	1	Note	60	All	1
2					
3					

Note: DMX devices often require multiple DMX channels to control, please refer to the instruction manual configuration of the DMX device.

[illegible]

4.4. Upload/download configuration parameters

Users can configure MIDI to DMX parameters according to different application scenarios. And save the configured parameters as a file for quick configuration next time.

- **Preparation**

Operating environment: Windows7 or above system.

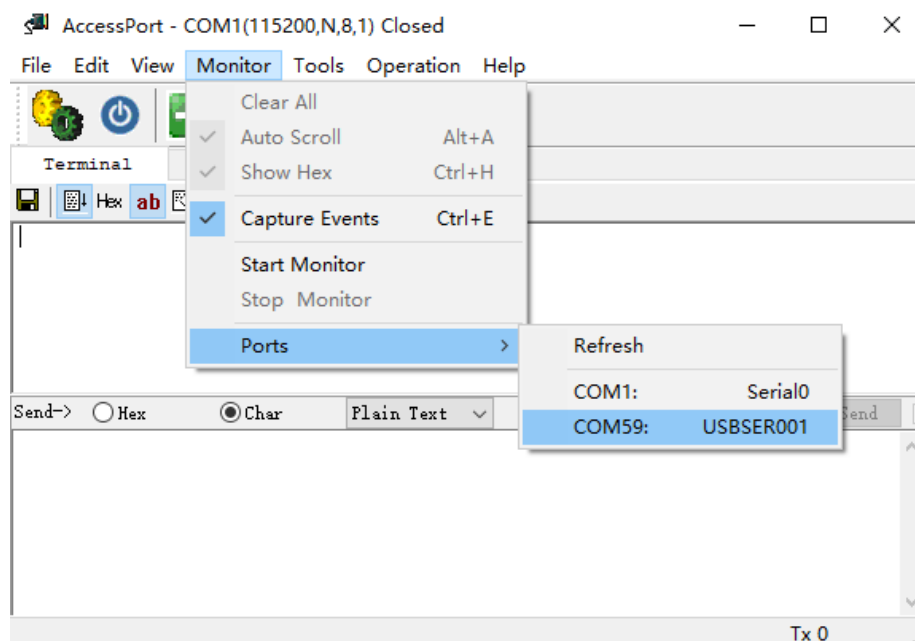
Software: Download the "AccessPort.exe" software. (Download from www.doremidi.cn)

Connection: Connect the USB Device port of MTD-1024 to the computer.

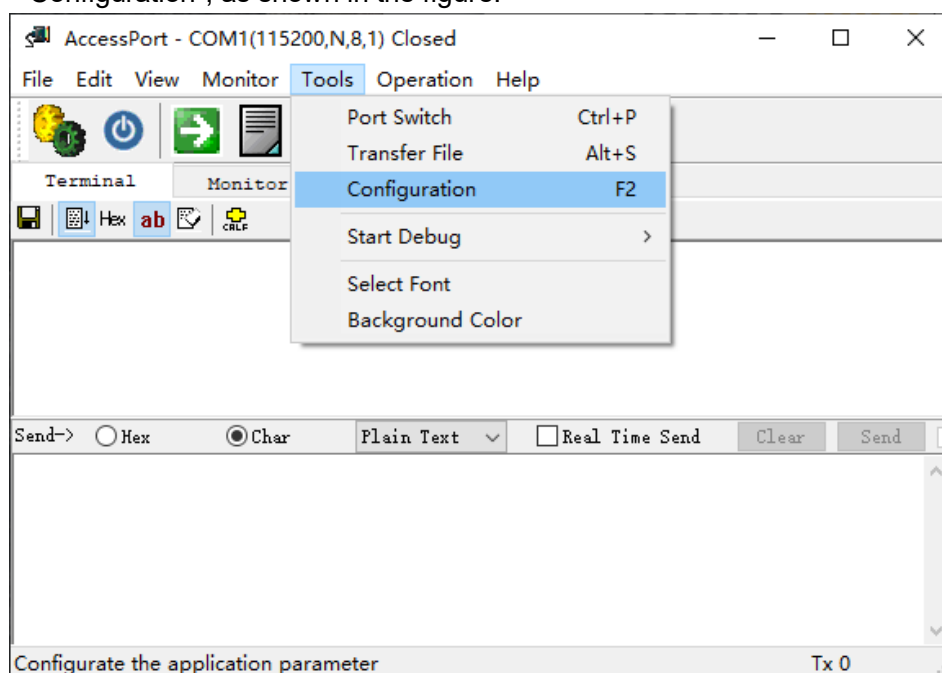
- **Configuring the COM port**

Open the "AccessPort.exe" software, select "Monitor→Ports→COMxx", as shown in the figure:

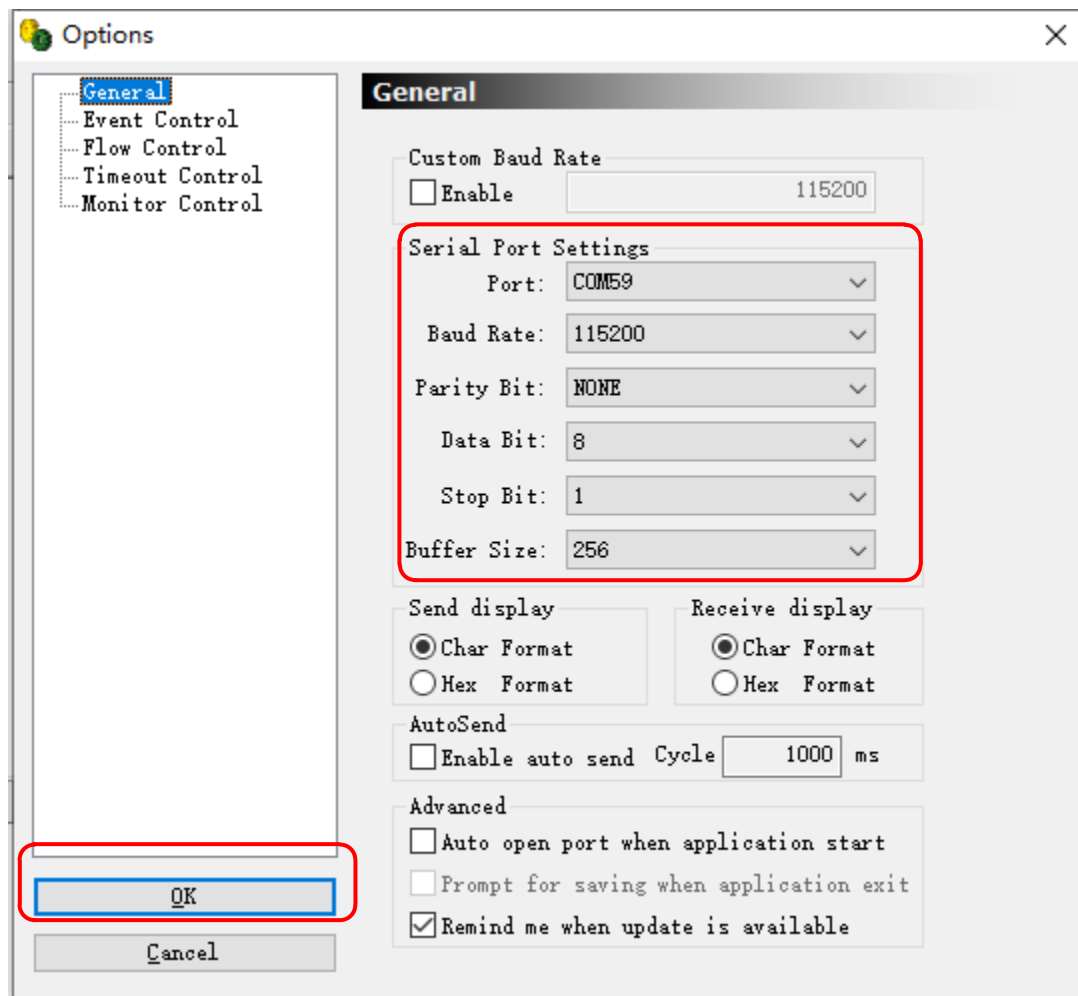
(Note: The COM names of different computers are different, please choose according to the actual situation.)



Select "Tools→Configuration", as shown in the figure:

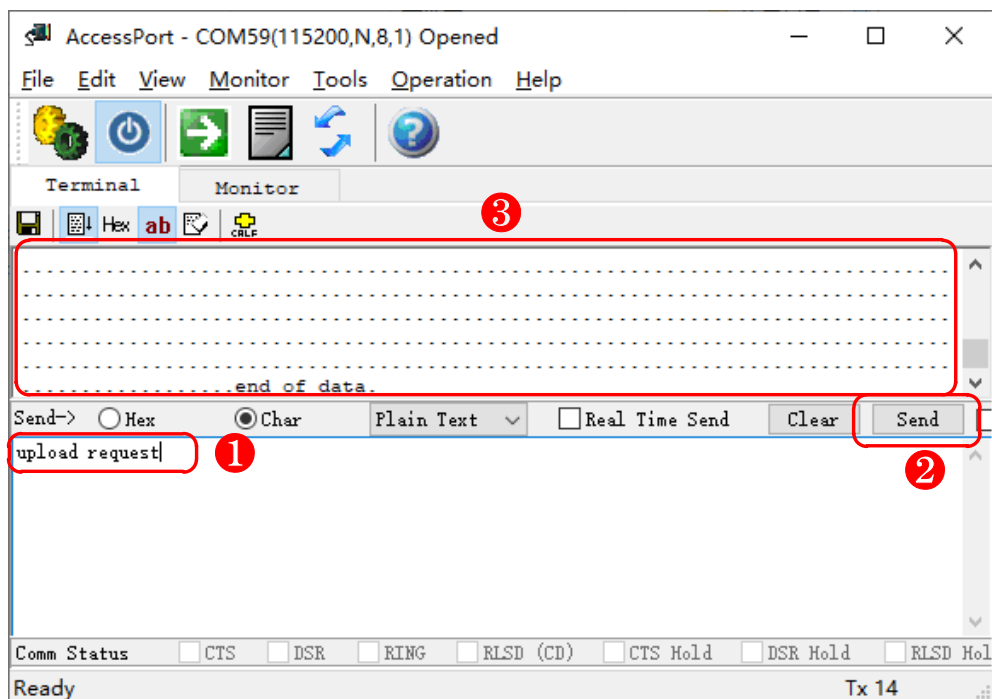


Select "General", configure COM port parameters and click "OK", as shown in the figure:

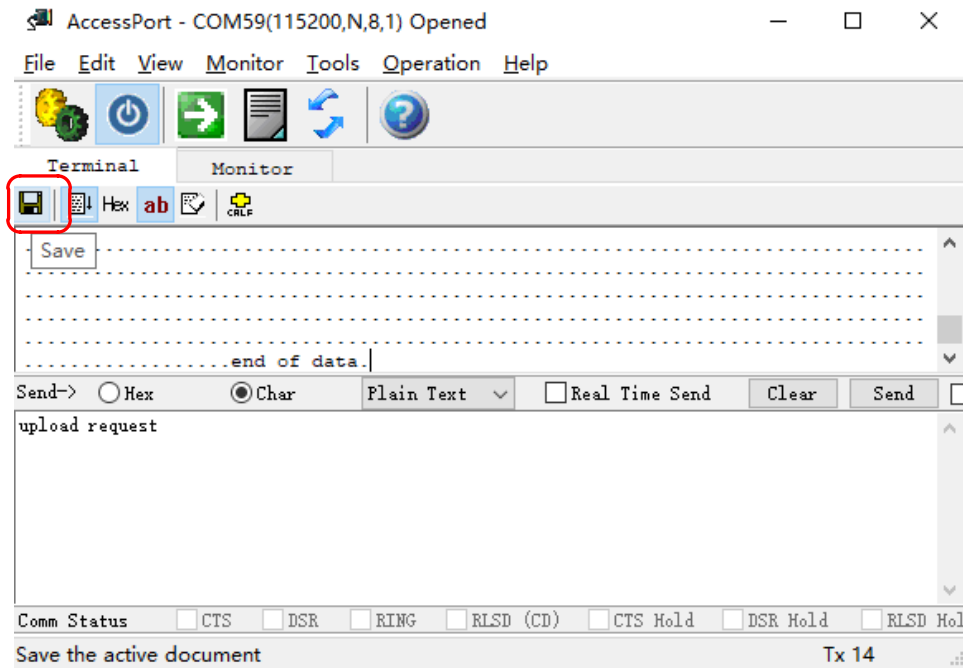


- **Upload configuration parameters**

Enter "upload request" in the software, click "Send", and you will receive "...end of data." as shown in the figure:

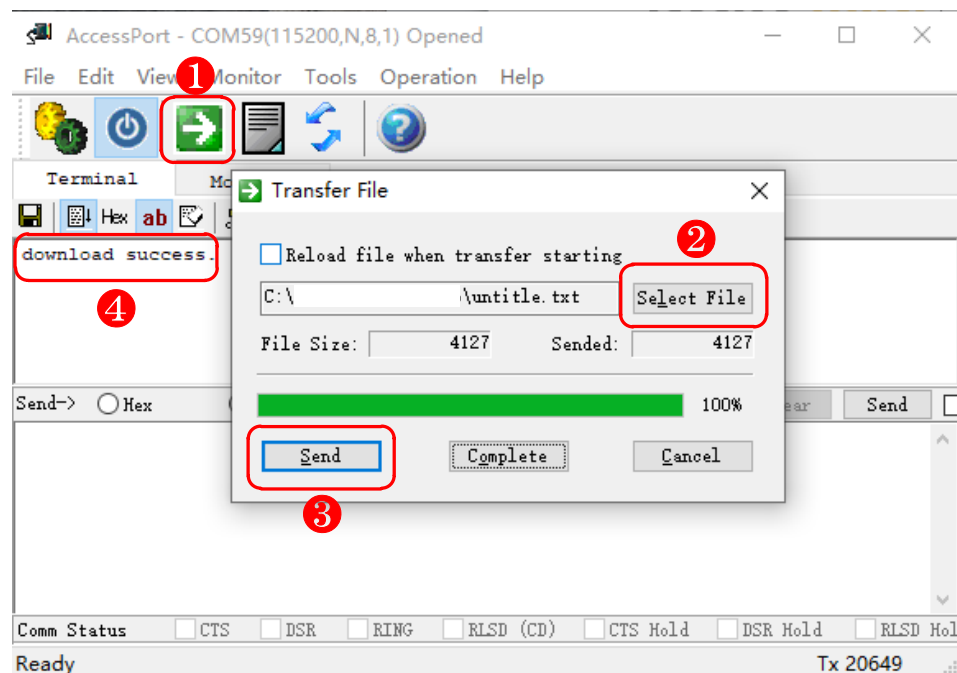


Click "Save" to save the data as a .txt file, as shown in the figure:



- **Download configuration parameters**

Select "Transfer File→Select File→Send", and receive "download success." after sending successfully, as shown in the figure:



5. 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.

6. Questions & Answers

- 1) Question: The USB Device port cannot connect to the phone.

Answer: Please confirm whether the mobile phone has the OTG function first, and it has been turned on.

- 2) Question: The USB Device port cannot be connected to the computer.

Answer:

- After confirming the connection, whether the screen displays "USB Connected".
- Confirm whether the computer has a MIDI driver. Generally speaking, the computer comes with a MIDI driver. If you find that the computer does not have a MIDI driver, you need to install the MIDI driver. The installation method: <https://windowsreport.com/install-midi-drivers-pc/>

- 3) Question: MIDI IN does not work properly

Answer: Make sure the "MIDI IN" port of the product is connected to the "MIDI OUT" port of the instrument.

- 4) Question: "AccessPort.exe" software cannot find the COM port.

Answer:

- Please confirm that the USB Device port of MTD-1024 has been connected to the computer, and MTD-1024 has been powered.
- Please try to connect to another USB port of the computer.
- Please select another COM port in the "AccessPort.exe" software.
- Please try to install the USB COM driver. Virtual COM Port Driver V1.5.0.zip

If it cannot be resolved, please contact customer service.

Manufacturer: Shenzhen Huashi Technology Co., Ltd.

Address: Room 910, Jiayu Building, Hongxing Community, Songgang Street, Baoan District, Shenzhen, Guangdong, China

Post Code: 518105

Customer Service Email: info@doremidi.cn