

MTB800E-D

Sending Controller

Specification V4.0



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1 Update Records

Document Version	Hardware Version	Release Time	Update Record
V4.0	ST1200 (V2 .0.0)	August 5(th), 2025	First release

2 Product Introduction

The MTB800E-D is an sending controller developed and launched by Mooncell that supports interactive communication protocol for floor LED, supporting up to 5.2 million pixels. It features powerful processing capabilities, ultra-stable performance, and exceptional cost performance

3 Product Characteristics

3.1 Improve the display effect

- Multiple input interfaces
 - 1×HDMI2.0
 - 1×DP1.2
 - Choose one of two options
- Output interface
 - 8 Gigabit Ethernet ports, supporting vertical and horizontal tiling in any configuration
 - Maximum load capacity: 5.2 million pixels
- Audio interface

Support audio input, Synchronize via network cable
- Control interface
 - 1×USB interface communication, which can be controlled by cascading multiple sending cards on the same PC.
 - 1×LAN, 100M network interface connected to the host computer for debugging.
 - 1×RS232 serial port for connecting to central control equipment

3.2. Diversified Practical Functions

- Compatible with multiple input frame rates including 30Hz, 50Hz, 60Hz, and 120Hz
- Supports host software monitoring of sending card operating parameters and status
- Supports configuration parameter readback
- Supports multiple preset resolutions and custom resolution settings
- Supports Gigabit Ethernet error rate detection

4 Product Appearance

Front Panel

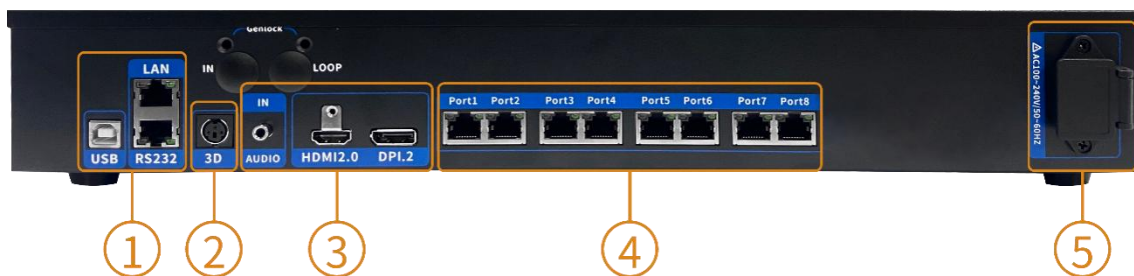


* Product photos are for reference only, please refer to the products actually purchased.

4.1 Description of Data Interface

#	Keys	Illustrations
1	ON/OFF	Power ON/OFF
2	LCD Display	To display the current status of the device and to have the menu settings. LCD Resolution: 320×240
3	Knob	Select menus, adjust parameters, and confirm operations
4	Esc	Return(ESC)/Cancel the current menu or operation.

Rear Panel

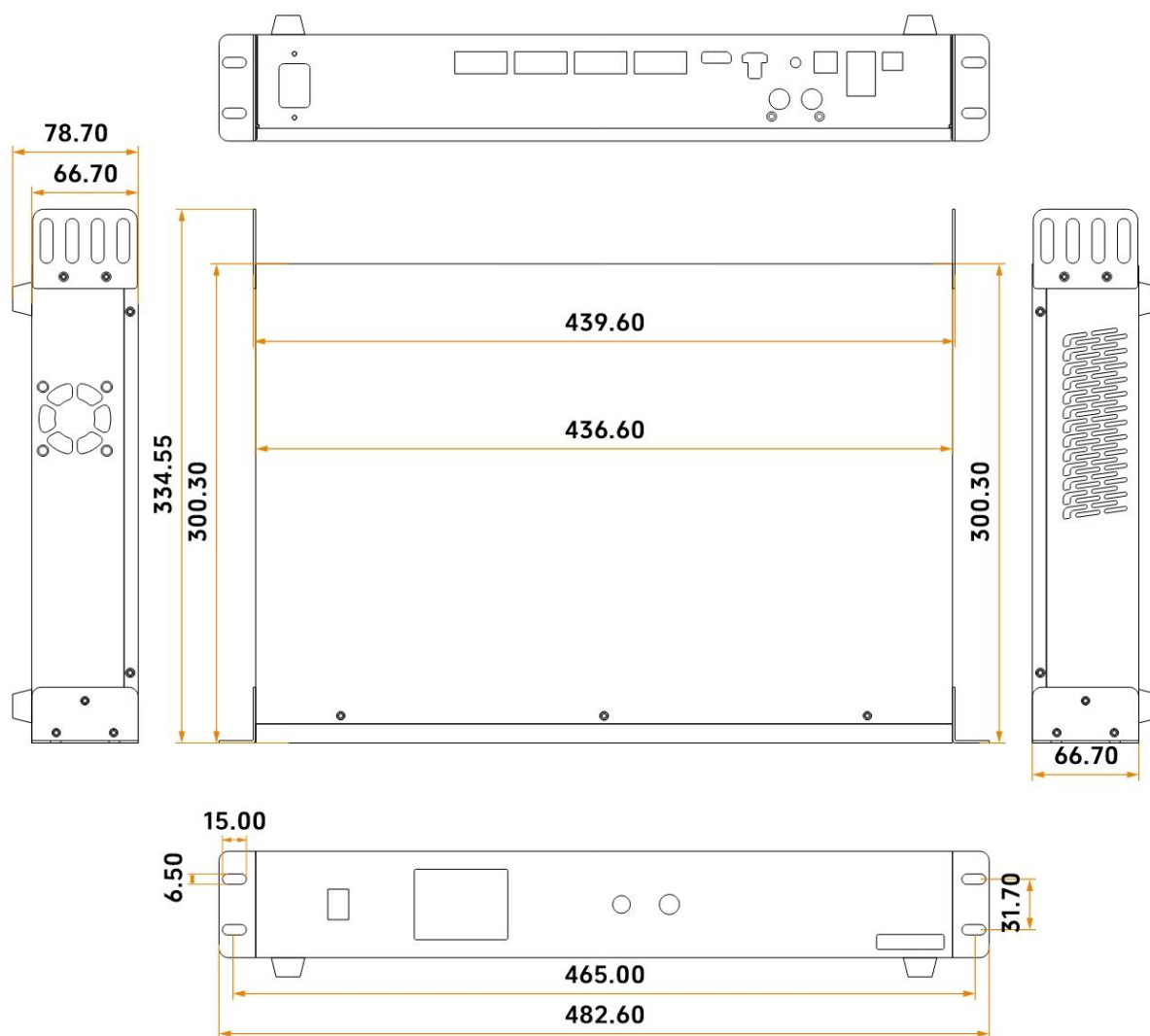


* Product photos are for reference only, please refer to the products actually purchased.

Rear Panel Description		
Input Interface		
#	Name	Illustration
3	HDMI2.0	1×HDMI 2.0, supports up to 3840×2160@60Hz with backward compatibility. Maximum customizable GPU width: 8192 Maximum customizable GPU height: 7680
	AUDIO	1×3.5mm audio input interface
	DP1.2	1×DP1.2, video signal input interface. Maximum resolution 3840×2160@60Hz, backward compatible. Graphics card customizable maximum width 8192 Graphics card customizable maximum height 7680

Output Interface		
#	Name	Illustration
4	Gigabit Ethernet port	◆ Port1-Port8 correspond to output ports 1-8 ◆ Maximum single-port load capacity: 650,000 pixels, at 8-bit
Control Interface		
#	Name	Illustration
1	LAN	100Mbps Ethernet interface for connecting to host computer for debugging
	RS232	1×RS232 interface for connecting to central control equipment
	USB (B-Type)	Connects to PC software for communication
Extended Interface		
#	Name	Illustration
2	3D	3D Transceiver Communication Interface
Power supply interface		
#	Name	Illustration
5	Ac power Interface	AC-100-240V-50/60HZ AC power interface

4.2 Product Dimensions



Tolerance: ± 0.3 Unit: mm

5 Product Parameters

5.1 Basic Parameters

Loading capacity	Single network port	Maximum load 655360 pixels, network port load (width × height) 1280 × 512
	Whole Unit	5.20 million Pixels
Load Range	Single port width	128–4096 pixels
	Single port height	64–4096 pixels
	Overall width	640–8192 pixels
	Overall height	480–7680 pixels
Offset Range	Width	0–8192 pixels
	Height	0–7680 pixels

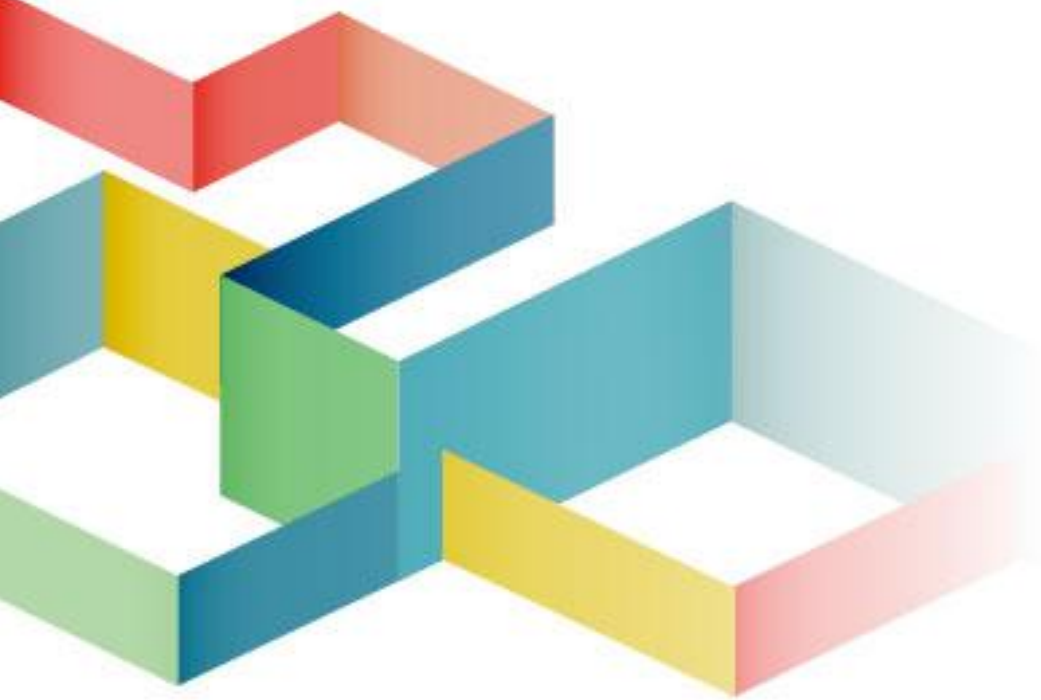
5.2 Specification

Electrical Parameters	Rated voltage	AC-100-240V-50/60HZ
	Rated power	70W
Working Environment	Operating temperature	-20°C~60°C
	working humidity	10%RH~90%RH non-condensing
Storage Environment	Temperature	-20°C~70°C
Chassis size	482.6mm×334.55×78.7mm	
Net weight	3.44Kg	
Outer box size	515×130×375mm	
Gross weight	4.78 Kg Description: Including accessories and packaging materials	
Accessory	1×Power Cord、1×USB、1×DP、1×HDMI、1×Certificate 2×hangers, 4×M3 screws	
Packing method	1 PCS/Carton	

*Current and power consumption may vary depending on factors such as product usage, environment, and settings.

6 Precautions

- High voltage hazard: This product operates at AC 100V~240V.
- Do not allow liquids or metal fragments and other conductive materials to enter the device, to prevent safety accidents.
- Please use the device in a dry and clean environment.



National after-sales services hotline: 400-881-3531

Official website: www.mooncell.com.cn

Address: Mooncell Building, Third Industrial Zone, Baoshi South Road,
Shiyan Street, Baoan District, Shenzhen

