



Shenzhen Mooncell Electronics Co., Ltd

Master Controller Series

MTB400E Product Specifications

1 Product Overview

Product Introduction

MTB400E is the large sending enclosure produced by Mooncell. It supports 1x DVI & 1x HDMI video signal input and comes with 4 network port outputs. The maximum loading capacity can reach up to 2.6 million pixels.

Product Features

- 1x DVI & 1x HDMI video signal input, synchronous transmission via the network cable.
- 1x AUDIO input, synchronous transmission via the network cable.
- 4x gigabytes Ethernet output ports, it supports the arbitrary splicing.
- 1x USB port communication, multiple sending cards could be cascading connected to one computer.
- It supports Ethernet Port Loop Dual Backup, Dual Master Controller Backup.
- It supports to have multiple preset resolutions: 1024×768 、 1280×1024 、 1366×768 、 1600×1200 、 1920×1080 、 2048×1152 、 2560×960 and the user defined resolution is supported.
- It is compatible with 30HZ, 50HZ, 60HZ, 120HZ and other Frame Rate Input.
- It supports the upper computer software to detect the operating parameters and status of the sending card.
- It supports to read the configurations back from where it was stored (configuration read back)
- It supports to detect the error rates of the gigabyte network.

It supports to have the ST-EXT extension panel (optional) to get the cascading control and to automatically adjust the brightness.

Application Scenarios

Mooncell MTB400E with powerful video processing and sending ability which has been widely used in various application scenarios such as: Stage, Conference, Event, Exhibition, High-end Rental and Small Pixel Pitch Led Displays.

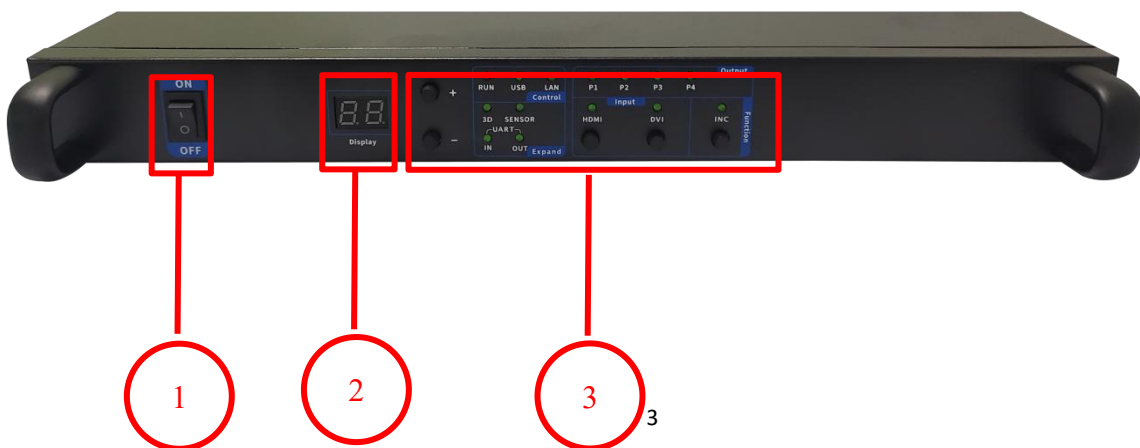
2 Product Parameters

Basic Parameters

Loading Capacity	1 Network Port	650 Thousand Pixels
	Entire Unit	2.6 Million Pixels
Loading Range	Width	128—4096 Pixels
	Height	64—4096 Pixels
Shift Range	Width	0—4095 Pixels
	Height	0—4095 Pixels

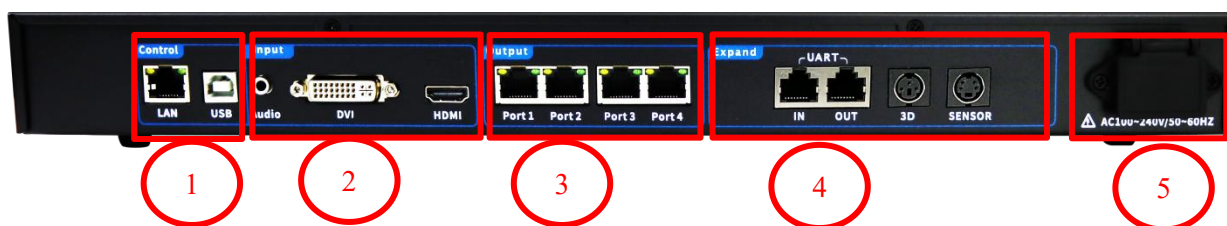
Hardware Introduction

Front Panel



<i>Front Panel Illustration</i>		
#	Name	Illustration
1	ON/OFF	Power ON/OFF
2	Digital Display	To show the brightness value
3	Status Indicator and Function Keys	To show the operating status of the controller and function operation

Backside Panel

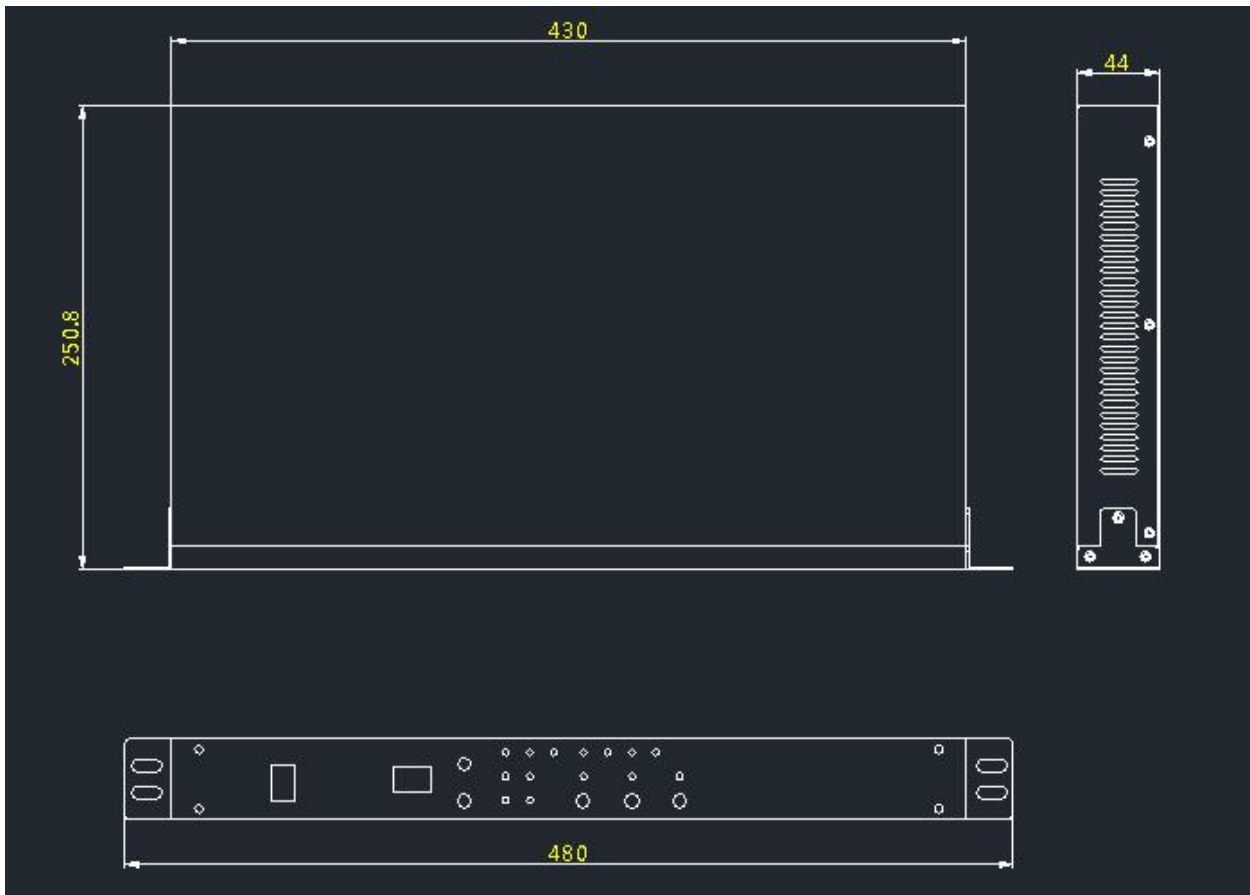


Backside panel illustration		
<i>Input interface</i>		
#	Name	Illustration
2	Audio	3.5mm AUDIO INPUT PORT
	DVI	DVI VIDEO SIGNAL INPUT PORT
	HDMI	HDMI VIDEO SIGNAL INPUT PORT
<i>Output Interface</i>		
#	Name	Illustration
3	Gigabyte Ethernet Port	<ul style="list-style-type: none"> ◆ P1-P4: Output Network Port: 1-4 ◆ maximum 650 thousand pixels for 1 network port ◆ it supports network port loop backup
<i>Control Interface</i>		
#	Name	Illustration
1	USB (B Type)	B Type USB Socket , to get it connected to the software on the PC to communicate
	LAN	100 Megabyte Ethernet Port (Reserved)
Extended Interface (Optional)		
#	Name	Illustration
4	IN	Serial Port Communication Input
	OUT	Serial Port Communication Output
	3D	3D Receiver Communication Port
	SENSOR	Sensor Communication Port
<i>Power Interface</i>		
#	Name	Illustration
5	AC Power Port	AC-100-240V-50/60HZ AC Power Port

Indicator Illustration

Indicator	Illustration	
<i>Output</i>		
P1- P4	<i>flickering at a constant speed</i>	<i>Gigabyte signal communicates well</i>
	<i>Long-lasting on</i>	<i>No gigabytes signal</i>
<i>Input</i>		
DVI	<i>Long-lasting on</i>	<i>DVI Signal Input is normal</i>
	<i>Long off</i>	<i>NO DVI Signal Input</i>
	<i>Button</i>	<i>to select the DVI Input</i>
HDM I	<i>Long off</i>	<i>HDMI signal input is normal</i>
	<i>Long off</i>	<i>No HDMI Signal Input</i>
	<i>Button</i>	<i>To select the HDMI Input</i>
<i>Control</i>		
USB	<i>Long lasting on</i>	<i>USB Connection is normal</i>
	<i>Long off</i>	<i>NO USB Cable connected</i>
LAN	<i>Long on</i>	<i>100 Megabyte Network is normally connected</i>
	<i>Long off</i>	<i>100 Megabyte Network Unconnected</i>
<i>Expand</i>		
3D	<i>Long lasting on</i>	<i>3D Receiver is normally connected</i>
	<i>Long off</i>	<i>3D Receiver is not connected</i>
SENS OR	<i>Long on</i>	<i>Sensor is normally connected</i>
	<i>Long off</i>	<i>Sensor is not connected</i>
IN	<i>Long on</i>	<i>serial port input is normally connected</i>
	<i>Long off</i>	<i>Serial port input is not connected</i>
OUT	<i>Long on</i>	<i>serial port output is normally connected.</i>
	<i>Long off</i>	<i>Serial port output is not connected</i>

Dimensions



3 Product Specifications

Specifications

<i>Electric Parameters</i>	<i>Input Voltage</i>	<i>AC-100-240V-50/60HZ</i>
	<i>Rated Power</i>	<i>16W</i>
<i>Operating Environment</i>	<i>Operating Temperature</i>	<i>-20°C - 70°C</i>
	<i>Operating Humidity</i>	<i>10%RH-90%RH No Solidification</i>
<i>Dimensions</i>	<i>480mmX250.8mmX44mm(Length x Width x Height)</i>	
<i>Net Weight</i>	<i>2.7 Kg</i>	

Precautions

- 1. High voltage danger: The working voltage of this product is AC -100V~240V.*
- 2. It is forbidden to immerse conductive objects such as liquids and metal fragments into the equipment to avoid safety accidents.*
- 3. Please use the equipment in a dry and clean environment.*