MTB600E Master Controller Series

Specification V3.1

Shenzhen Mooncell Electronics Co., Ltd

1 Product Overview

Product Introduction

MTB600E is a master controller with 6 gigabyte Ethernet out puts that fully researched and developed by Mooncell, the maximum loading capacity could reach up to 2.6 million pixels; with powerful processing capability to efficiently enhance the use ratio of the loading, and it perfectly supports the 2K resolution; with powerful processing ability, super reliability and high cost performance.

Product Features

- 1x DVI video signal input, synchronous transmission via the network cable.
- 1x AUDIO input,synchronous transmission via the network cable.
- 6x 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.

Application Scenarios

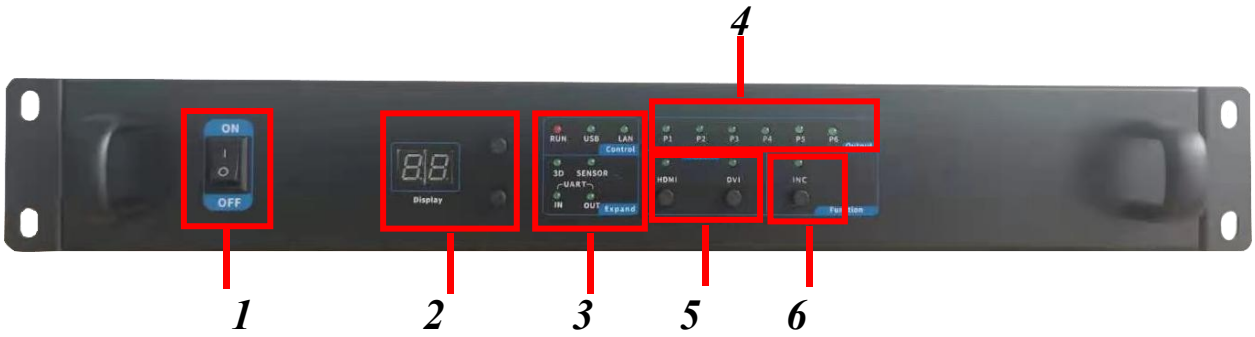
Mooncell MTB600E with powerful video processing and sending ability which has been widely used in various application scenarios such as: Stage, Conference,Event, Exhibition ,High-end Rental and Small Pixel Pitch Led Displays.

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

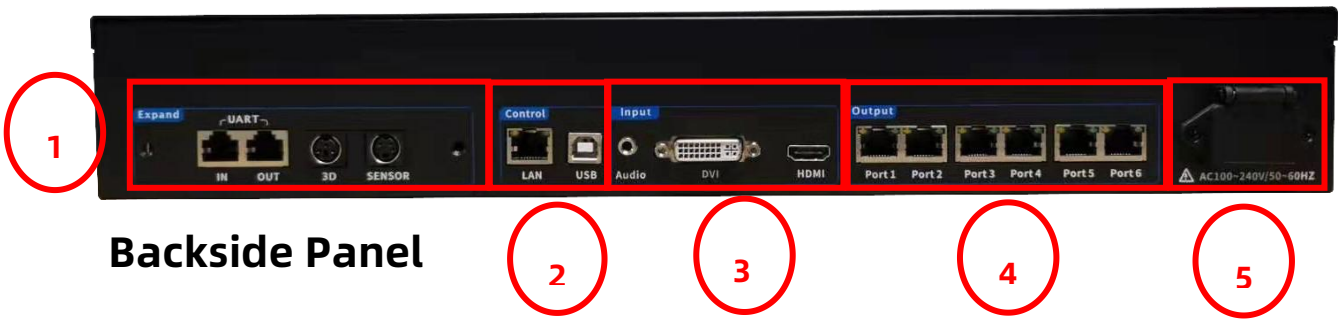
Hardware Introduction



Front Panel

Front Panel Illustration		
#	Name	Illustration
1	ON/OFF	Power ON/OFF
2	Digital Tube	Display brightness value
3	Power indicator, control interface	Power indicator, control interface indicator, expansion interface indicator
4	Output Ethernet	Display output port status
5	Input signal	Switch signal input port

6	Extended function button	1. Short press the button, the INC indicator light flashes, and the sending card keeps checking the offset of the sub-control, the image size of the sub-control, and the offset of the receiving card; when the INC indicator light flashes, press the button, and the INC indicator light goes out immediately Release the button, the INC indicator no longer flashes, and the inspection function is turned off. 2. Long press the button for more than 3S and then release it, the INC indicator light flashes slowly, and the sending card starts the inspection. The content of the inspection is all the inspection content configured by the host computer (sub-control configuration, receiving card brightness, receiving card network port offset, white balance, gamma, receiving card parameters). At the end of the inspection, the INC indicator light is turned off. 3. Press and hold the button for more than 10s and then release it. The INC indicator light is always on. Send the solidified inspection content of the card to the designated receiving card and sub-control. The solidified content is the inspection content configured by the host computer. During the solidification process, please do not perform other operations. After curing, the INC indicator light goes out. 4. The above operations are performed when the USB interface is disconnected.



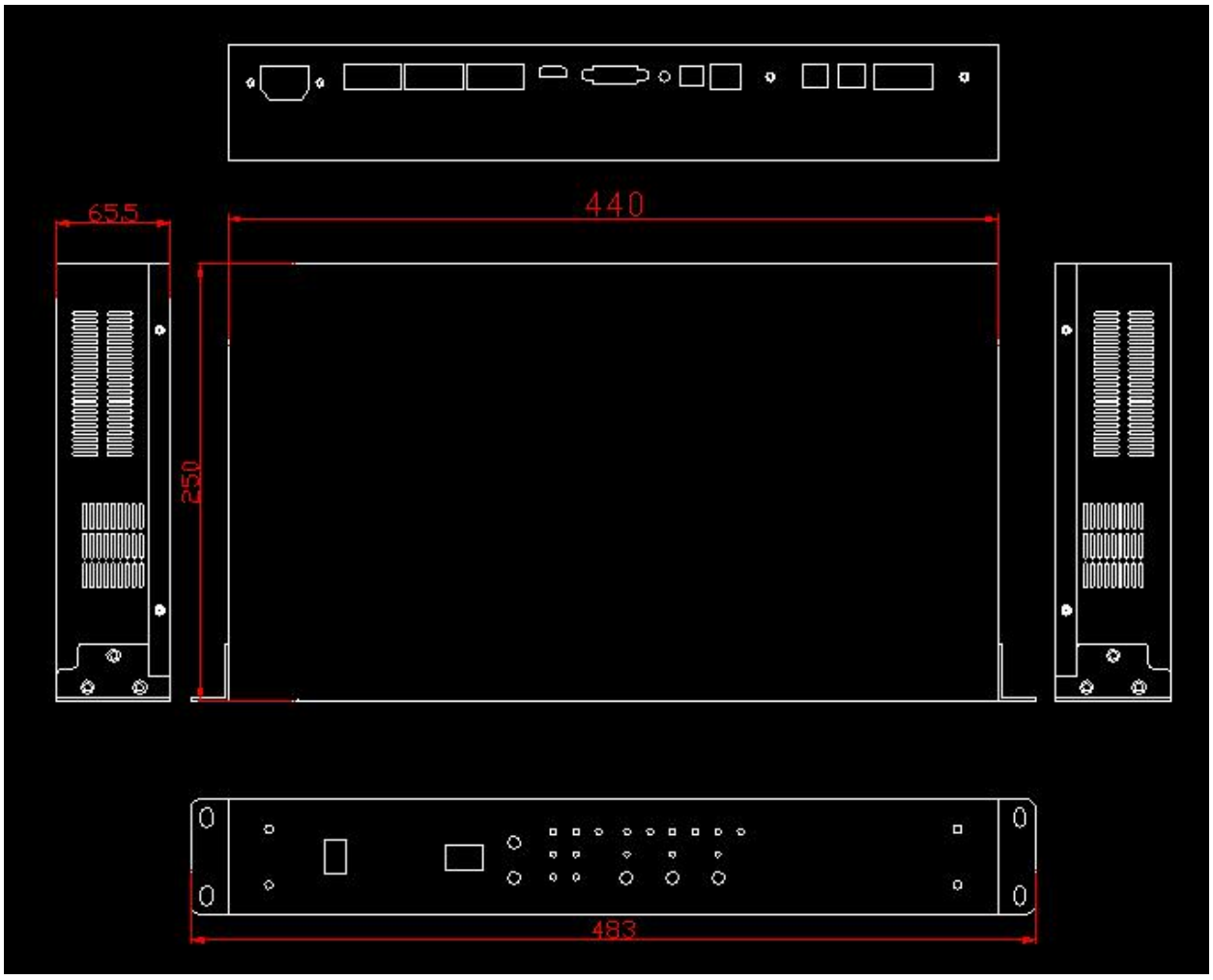
Backside Panel

Backside Panel Illustration		
Input Interface		
3	Name	Illustration
	AUDIO	3.5mm AUDIO INPUT Port
	DVI	DVI Video Signal Input Port
Output Interface		
#	Name	Illustration
4	Gigabyte Ethernet Port	OUT1-OUT6: Output Ethernet Ports1-6 650 thousand pixels for 1 network port it supports network port loop backup.
Control Interface		
#	Name	Illustration
2	USB（B TYPE）	to get it connected to the software on the PC to communicate.
Extension Ports		
#	Name	Illustration
1	IN	Serial Port Communication Input
	OUT	Serial Port Communication Output
	3D	3D transmitter and receiver communication port
	SENSOR	Light senor port
Power Interface		
#	Name	Illustration
5	AC Power Port	AC-100-240V-50/60HZ AC Power Port

Indicator Illustration

Indicator	Illustration	
Output		
P1-P6	Flashes	Gigabit network signal communication is
	Always on	Gigabit network signal is not working
Input		
DVI	Always on	DVI Signal Input is normal
	Always off	No DVI Signal Input
	Button	Select DVI Input
HDMI	Always on	HDMI Signal Input is normal
	Always off	No DVI Signal Input
	Button	Select HDMI Input
Control		
USB	Always on	USB Cable Connection is normal
	Always off	USB cable not connected
LAN	Always on	100M network connection is normal
	Always off	100M network is not connected
Expand		
3D	Always on	3D signal transceiver connection is normal
	Always off	3D signal transceiver is not connected
SENSOR	Always on	Light sensor connection is normal
	Always off	Light sensor is not connected
IN	Always on	Serial input connection is normal
	Always off	Serial input not connected
OUT	Always on	Serial output connection is normal
	Always off	Serial output not connected

Dimensions



3 Product Specifications

Specifications

Electric Parameters	Input Voltage	AC-100-240V-50/60HZ
	Rated Power	16W
Operating Environment	Operating Temperature	-20℃ - 70℃
	Operating Humidity	10%RH-90%RH No Solidification
Dimensions	483mmX250mmX65.5mm	
Net Weight	3.1Kg	

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.