MTB800E Master Controller Series

Specification V3.0

Shenzhen Mooncell Electronics Co., Ltd

1 Product Overview

Product Introduction

The MTB800E has a variety of video signal receiving capabilities, as well as ultra-high definition full 4K $\times$ 2K@60Hz image processing capabilities and transmission capabilities; the processed video can be sent to the LED display through the network port and optical fiber port; and it has powerful processing capabilities. It can effectively improve on-load utilization. It has strong processing power, ultra-stable performance and ultra-high cost performance.

Product Features

✧ **Multiple input interfaces: 1 channel DP1.2 input; 1 channel HDMI2.0 input; 1 channel AUDIO audio input**

✧ **8x gigabytes Ethernet output ports,it supports the arbitrary splicing.**

✧ **A variety of communication control methods: 1 USB interface; 1 serial port interface; 1 100M network interface**

✧ **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)**

- ✧ **Support 3D display, active 3D display.**

- ✧ **It supports to detect the error rates of the gigabyte network.**

Application Scenarios

Mooncell MTB800E 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	**5.2 Million Pixels**
Loading Range	**Width**	**128—4096 Pixels**
	Height	**64—4096 Pixels**
Shift Range	**Width**	**0—8192 Pixels**
	Height	**0—8192 Pixels**

Hardware Introduction

Front Panel Illustration

| Front Panel Illustration		
#	**Name**	**Illustration**
1	ON/OFF	Power On/Off for Master Controller
2	LCD Indicator	To show the current status of the device and to set the menu item parameters
3	Rotating Knob	When it's in the Main Interface,Press the Knob to enter the Menu Operation Interface.
		When in the Menu Operation Interface,rotate the knob to select the menu,press the knob to select the current menu or enter sub-menu
4	ESC	Exit the current menu or operation.

Backside Panel
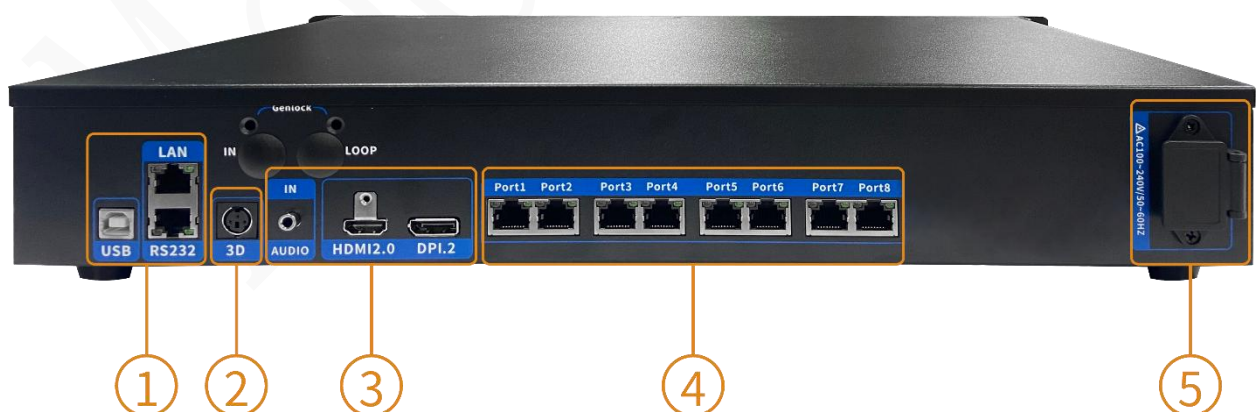
Backside Panel

Interface	Illustration
AUDIO	3.5mm Audio Input Interface
DP1.2	The maximum resolution 3840x2160@60Hz,downwards compatible. It supports HDCP1.3.The maximum width of the graphics card is 7680, and the maximum height is 7680.
HDMI2.0	The maximum resolution 3840x2160@60Hz,downwards compatible. It supports HDCP1.4 and EDID 1.4.The maximum width of the graphics card is 7680, and the maximum height is 7680.
Interface	Illustration
Ethernet Port	8x Gigabyte Ethernet Port Output. The maximum loading capacity for 1 single network port: When the input source bits are 8 bits, the maximum loading capacity is 650 thousand pixels.

Interface	Illustration
USB（square）	to connect to the PC end
RS232	1x DB9 interface to connect the central control devices.
LAN	100M megabyte Interface for Local Area Network Communication
3D	The reserved interface(to connected the 3D Transmitter,it needs to be customized according to the requirements)
Interface	Illustration
Power Port	AC-100-240V-50/60HZ AC Power Connector

Dimensions
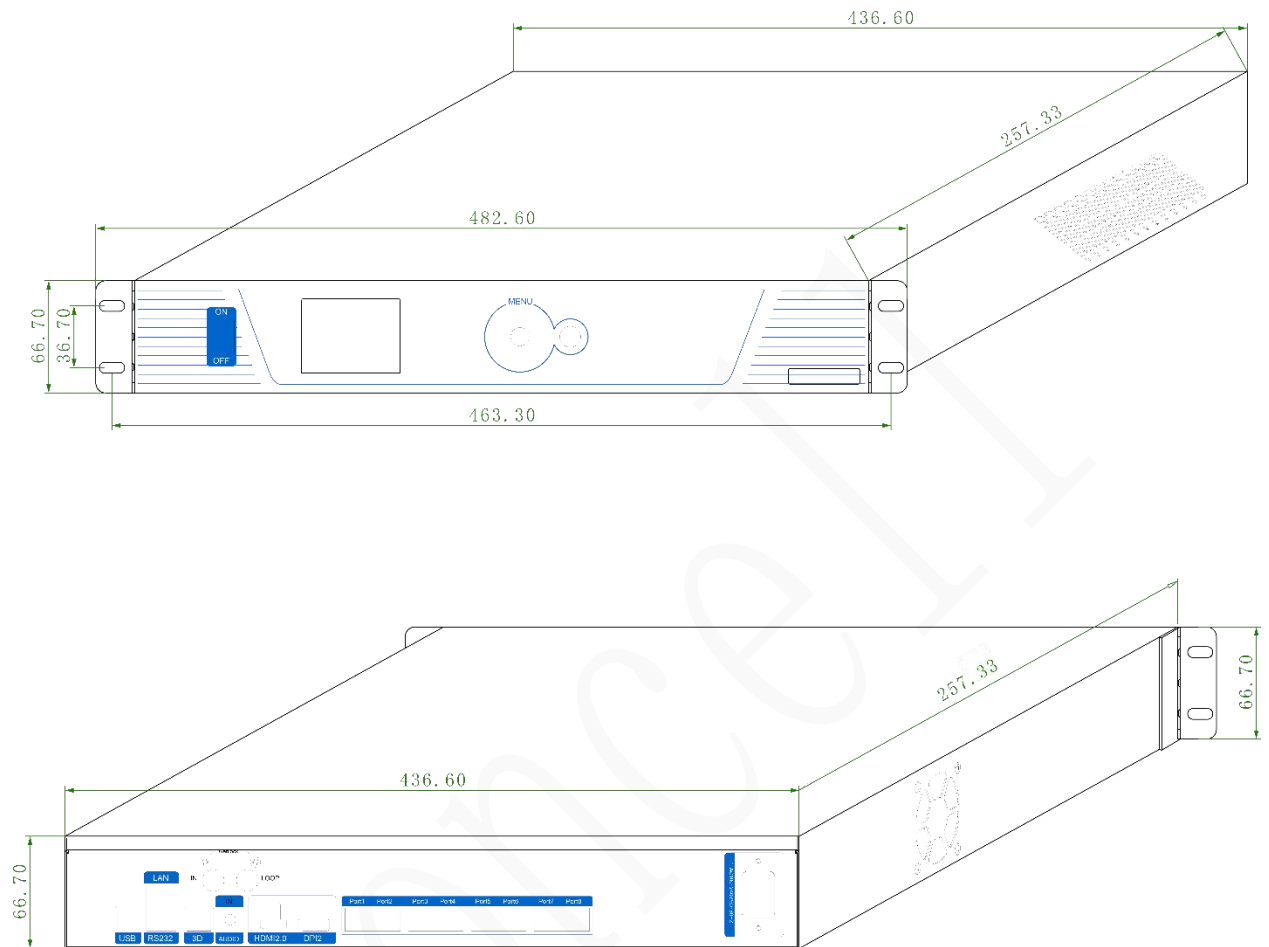
3 Product Specifications

Specifications

Electric Parameters	**Input Voltage**	**AC-100-240V-50/60HZ**
	Rated Power	**70W**
Operating Environment	**Operating Temperature**	**-20℃ - 70℃**
	Operating Humidity	**10%RH-90%RH No Solidification**
Dimensions	**482.6mmX257.33mmX66.7mm(Length x Width x Height)**	
Net Weight	**4.78Kg**	
Packaging	**515×130×355mm**	

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.**