



*Shenzhen Mooncell Electronics Co., Ltd*

# *Master Controller Series*

## *B800S Sphere LED Display Product Specifications*



# 1 Product Overview

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## Product Introduction

B800S is a special-shaped customized independent master with 8 Gigabit Ethernet port outputs; with a load of up to 5.20 million pixels; and has powerful processing power to effectively improve the utilization rate of the load, supporting any 4K resolution; it has powerful processing power, ultra-stable performance and ultra-high cost performance

## Product Features

- Varieties of input interface: 1X DP 1.2 Input; 1X HDMI2.0 Input;
- 1 AUDIO audio input, synchronous transmission through network cable
- 8 Gigabit network port output, support screen up and down, left and right arbitrary splicing
- 1 USB interface communication, which can be controlled by multiple sending cards on the same PC
- It supports Ethernet Port Loop Dual Backup, Dual Master Controller Backup.
- Compatible with 30HZ, 50HZ, 60HZ, 120HZ and other frame rate inputs
- 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

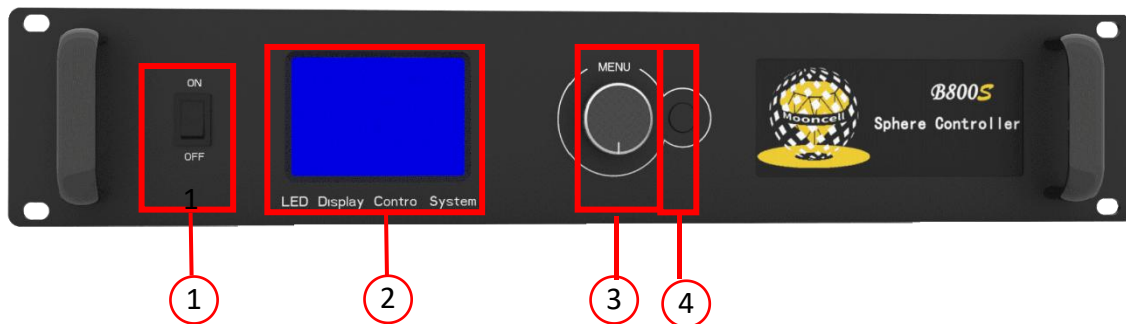
Mooncell B800S could be widely used for sphere led display, Circle Led Display and a variety of displays that are special-shaped designed.

## 2 Product Parameters

### Basic Parameters

Loading Capacity	1 Network Port	650 Thousand Pixels
	Entire Unit	5.20 Million Pixels
Loading Range	Width	640—8192 Pixels
	Height	480—8192 Pixels
Shift Range	Width	0—8192 Pixels
	Height	0—8192 Pixels

### Hardware Introduction

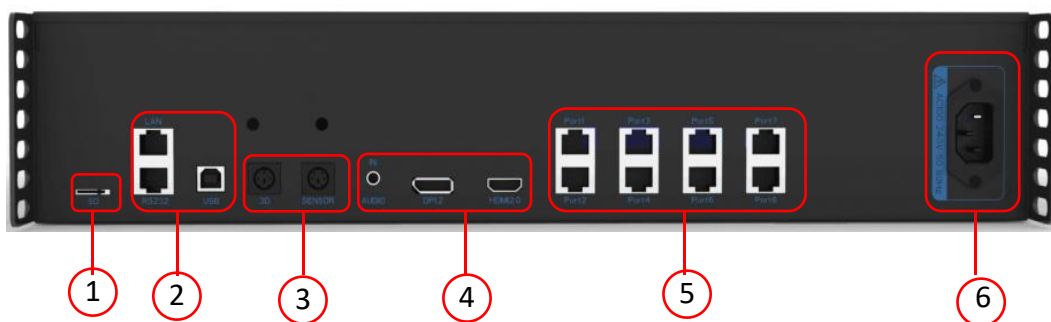


**Front Panel**

## Front Panel Illustration

<b>Front Panel Illustration</b>		
#	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.

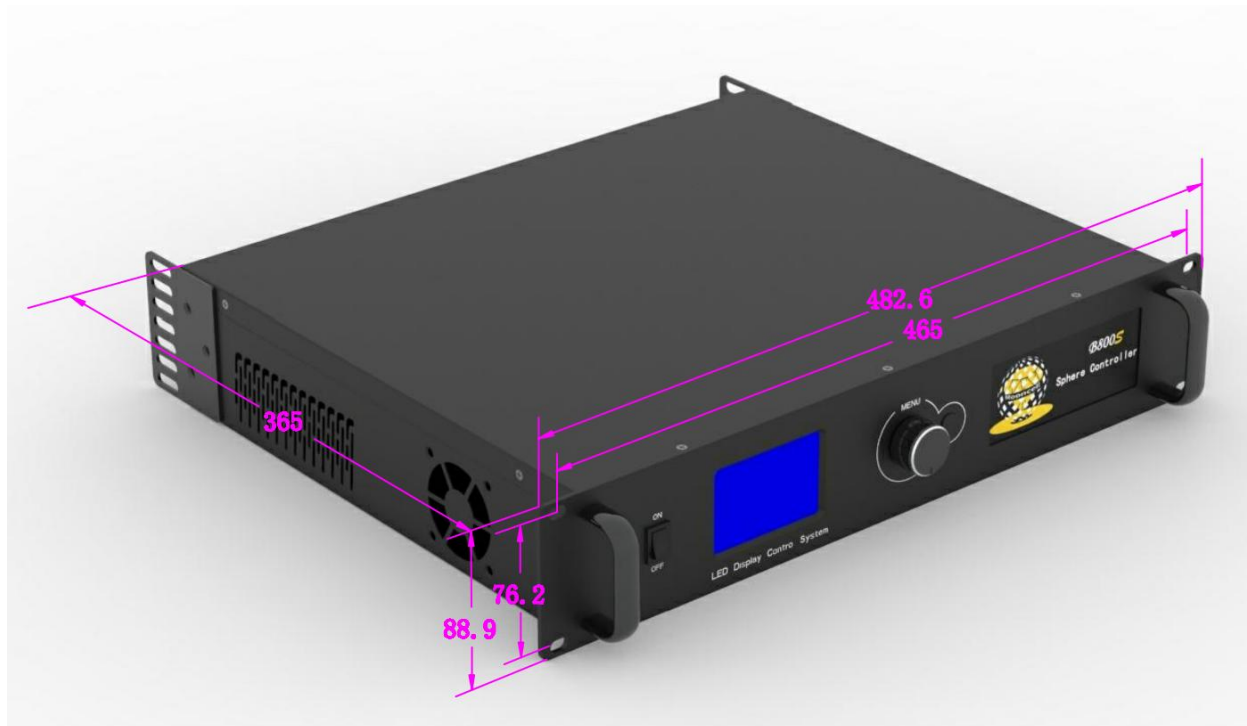
## Backside Panel



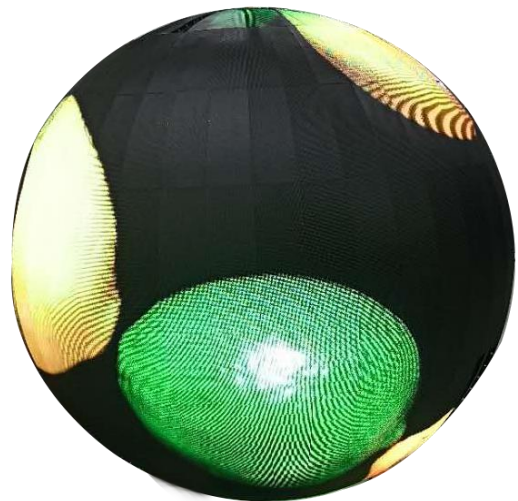
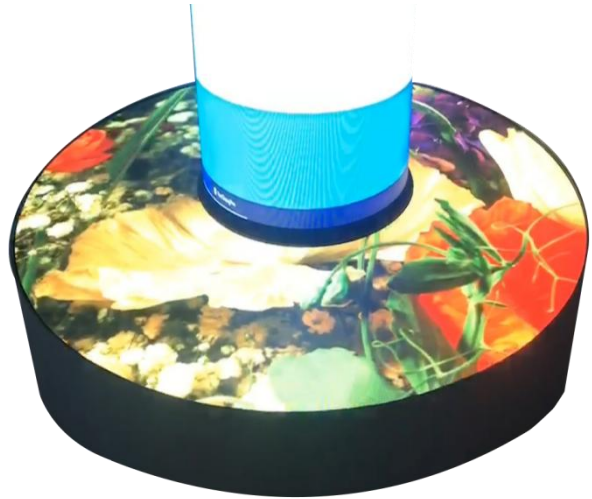
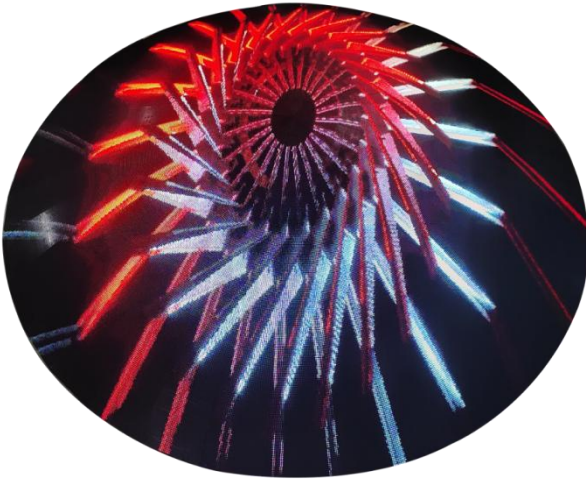
<b>Interface</b>	<b>Illustration</b>
AUDIO	3.5mm Audio Input Interface
DPI.2	The maximum resolution 3840x2160@60Hz, downwards compatible. It supports HDCP1.3. The maximum width of the graphics card is 4096, and the maximum height is 4096.
HDMI2.0	The maximum resolution 3840x2160@60Hz, downwards compatible. It supports HDCP1.4 and EDID 1.4. The maximum width of the graphics card is 4096, and the maximum height is 4096.
Interface	Illustration

<i>Ethernet Port</i>	<p><i>8 x Gigabyte Ethernet Port Output.</i></p> <p><i>The maximum loading capacity for 1 single network port: 650 thousand pixels.</i></p> <p><i>Support inter-network port loop backup.</i></p> <p><i>Audio transmission can only be realized by the P1 output network port.</i></p>
<b>Interface</b>	<b>Illustration</b>
<i>USB (square)</i>	<i>to connect to the PC end</i>
<i>RS232</i>	<i>1x DB9 interface to connect the central control devices.</i>
<i>LAN</i>	<i>100M megabyte Interface for Local Area Network Communication</i>
<i>SD</i>	<i>Connect the SD Card/Saving the parameters/ Retrieve the parameters from the SD Card when the device is replaced</i>
<i>3D</i>	<i>The reserved interface( to connected the 3D Transmitter;it needs to be customized according to the requirements)</i>
<i>SENSOR</i>	<i>To connect the light sensor to get the automatic light adjustment function</i>
<b>Interface</b>	<b>Illustration</b>
<i>Power Port</i>	<i>AC-100-240V-50/60HZ AC Power Connector</i>

**Dimensions**



# 3 Application Scheme



# 4 Product Specifications

## Specifications

<i>Electric Parameters</i>	<i>Input Voltage</i>	<i>AC-100-240V-50/60HZ</i>
	<i>Rated Power</i>	<i>20W</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( Device)</i>	<i>486mmX365.5mmX88.9mm( Length x Width x Height)</i>	
<i>Dimensions (Carton )</i>	<i>482.6mmX365mmX88.9mm</i>	
<i>Net Weight</i>	<i>5Kg</i>	
<i>Packaging</i>	<i>1 × Power cord, 1x USB2.0 Cable, 1x HDMI Cable, . 1x DP Cable. 1x Certificate</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.*