Mooncell

B200S   Sphere LED Controller

Specification V3.3

1 Product Overview

Product Introduction

B200S is a recently developed independent master controller that is specially designed for special-shaped led displays with 2 Gigabit Ethernet Ports for Output;its loading capacity could reach up to 1.3 million pixels and with an excellent processing performance which could highly enhance the loading utility,it could perfectly supports any 2K resolutions;Overall, its a product with a strong processing ability, super stability as well as is high price competitive.

Product Features

➢ **1x DVI video signal input, synchronous transmission via the network cable.**

➢ **1x AUDIO input,synchronous transmission via the network cable.**

➢ **2x 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 offline adjust the brightness.**

➢ **It is suitable for those led displays with irregular sizes(sphere**

led,circle,special-shaped led,etc)

Application Scenarios

Mooncell B200S 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	1.3 Million Pixels
Loading Range	width	128—4096 Pixels
	height	64—2048 pixels
Shift Range	width	0—4095 Pixels
	height	0—2047 Pixels

Hardware Introduction

Front Panel

Front Panel Illustration		
N	Name	Illustration
1	ON/OFF	Power switch
2	Digital Display	Display the current brightness value
3	Indicator	Main control working status indicator
4	100Gb Ethernet port	Debugging network port
5	Key+-	Brightness Adjustment Button

Rear Panel

Backside Panel Illustration		
Input Interface		
#	Name	Illustration
2	Audio	3.5mm Audio Input Port
4	DVI	DVI Video Signal Input Port
Output Interfaces		
#	Name	Illustration
1	Gigabyte Ethernet Port	OUT1-OUT2 Output Network Port:1-2 Maximum 650 thousand pixels for 1 network port it supports the loop backup between the Ethernet ports
Control Interfaces		
#	Name	Illustration
3	USB（B Type）	To get it connected to the PC software to communicate
Power Interface		
#	Name	Illustration
5	AC Power Port	AC-100-240V-50/60HZ AC Power Port

Indicator Illustration

Indicator	Illustration	
OUT1-OUT2	Flickering at a constant speed	The Gigabyte Ethernet Port Signal is normally communicated.
	Long lasting on	No Signal for Gigabyte Ethernet Port
DVI	Long On	DVI Signal Input is Normal
	Long Off	NO DVI Signal Input
USB	Long On	USB Cable is Connected
	Long Off	USB Cable is not connected

Dimension
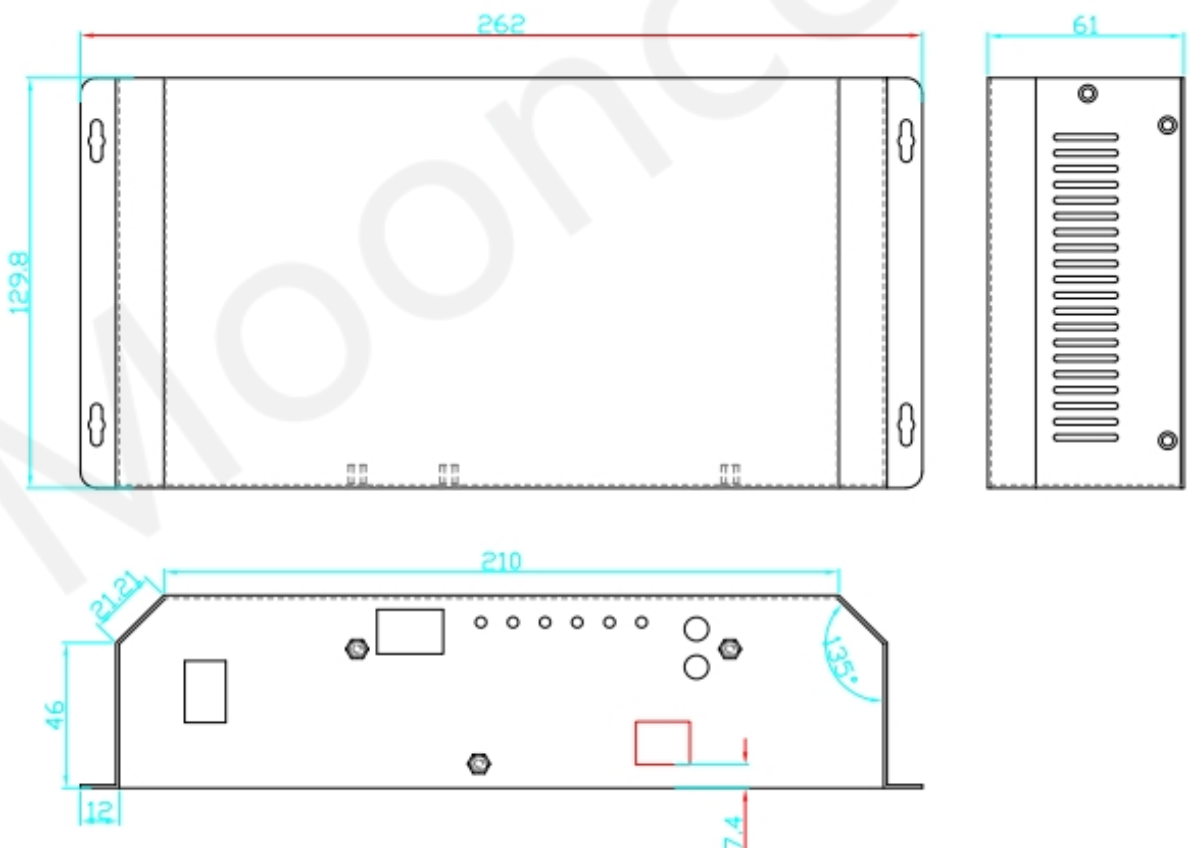
3 Application Scheme

4 Product Specification

Parameter

Electrical Parameters	Input Voltage	AC-100-240V-50/60HZ
	Rated Power	10W
Working Environment	Operating Temperature	-20℃ - 70℃
	Operating Humidity	10%RH-90%RH No Solidification
Board Size	With mounting iron sheet: 262mmX129.8mmX61mm (LxWxH)	
	Without mounting plate: 210mmX129.8mmX61mm (LxWxH)	
Net Weight	1.1Kg	
Packing Information	Accessories	1×Power cable, 1×DVI cable, 1×HDMI to DVI cable, 1×USB cable, 1×Certificate of Conformity
	Outer box	325mmX210mmX135mm
	Gross weight per unit	1.85kg
	Packing method	Single unit, the size of the outer package varies with the quantity.

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.