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BTS100

Product Introduction

Rev. 0

BOE MLED Technology Co., Ltd.

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1. Product Introduction

1.1 Scope of Application

This product specification is applicable to outdoor P10.0 full-color modules

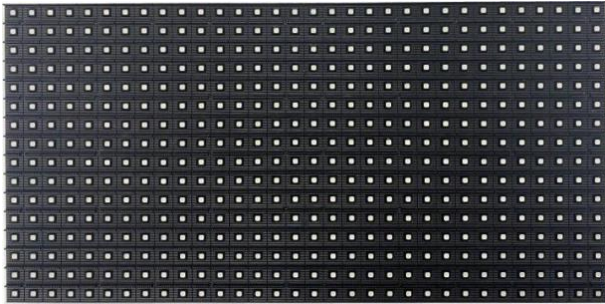


1.2 Product Description

This product uses SMD3535 lamp beads, each of which encapsulates a red chip, a green chip, and a blue chip. The 3535 lamp beads are welded to the PCB with the surface mount technology (SMT)

This product uses a constant current driver IC chip and an integrated line driver chip and is controlled by a computer.

Lamp beads and chips are mounted on the PCB board to form a unit board, which is then mounted on the bottom case to form a module

1.3 Product Picture

View	Illustration
Front View	
Back View	
Side View	

2. Product Specification

Category	Parameters	Specification
Module	Pitch(mm)	10.0
	LED Model	SMD3535
	LED Type	Gold/Copper wire
	Module resolution	32*16

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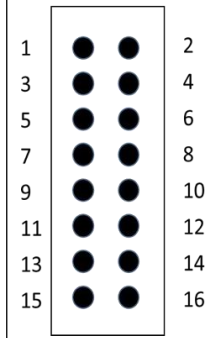
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Category	Parameters	Specification
	Module size \pm tolerance(mm \times mm \times mm)	319.8 \pm 0.2*159.8 \pm 0.2*17.1 \pm 0.2
	Module weight \pm tolerance(g)	440 \pm 10
	Module flatness (mm)	\leq 0.7
	Pixel density (dots/m ²)	10000
Optical parameters	White balance brightness (cd/m ²)	\geq 5000
	Color temperature	9000-15000K
	Horizontal viewing angle	\geq 120°
	Vertical viewing angle	\geq 120°
	View distance (m)	\geq 10
Electrical Parameters	Maximum power consumption per module (W)	\leq 40W
	Operating voltage (V)	5
	Signal input interface type	HUB75
Processing performance	Scanning mode	1/2
	Frame change frequency (Hz)	60
	Refresh frequency (Hz)	\geq 3840
	Driving mode	Constant drive
	Grayscale (Bit)	14
Operating Parameters	Continuous operation time	168 hrs, Support uninterrupted display
	Average trouble-free working time	\geq 5000 hours
	Discrete runaway point	Preset at 0, < 30PPM
	Continuous runaway point	0
	Blind spot rate	Preset at 0, < 30PPM
Utilization Parameters	Typical life value (hrs)	100000
	Operating temperature (°C)	-10-60
	Storage temperature (°C)	-20-60
	Operating humidity (RH)	10%-60%
	Storage humidity (RH)	10%-60%
Protection grade	Protection grade	IP65(The protection level of the lamp surface when the back of the panel is under strict protection)
Certification	CCC	—
	Energy saving	—
	ROHS	—
	CE	—
	CB	—
	UL	—
	FCC	—

3. Definition of signal interface

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Pin	Signal	Function	Pin	Signal	Function
1	R1	Red data signal	2	G1	Green data signal
3	B1	Blue data signal	4	GND	GND of power supply
5	R2	Red data signal	6	G2	Green data signal
7	B2	Blue data signal	8	N	Suspended
9	A	Line control signal	10	B	Line control signal
11	C	Line control signal	12	N	Suspended
13	CLK	Clock signal	14	LAT	Latch signal
15	OE	Enable signal	16	GND	GND of power supply



4. Mounting holes

4.1 Module mounting hole location (Unit: mm)

