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# **BTS030**

# **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 P3.076 full-color modules

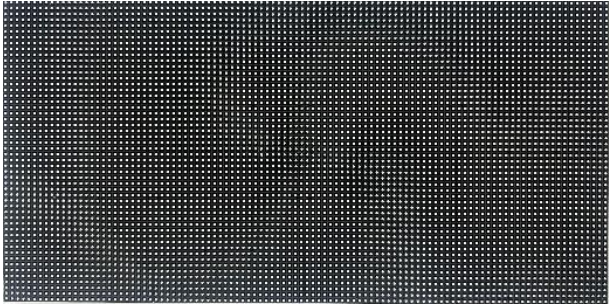


### 1.2 Product Description

This product uses SMD1415 lamp beads, each of which encapsulates a red chip, a green chip, and a blue chip. The 1415 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	

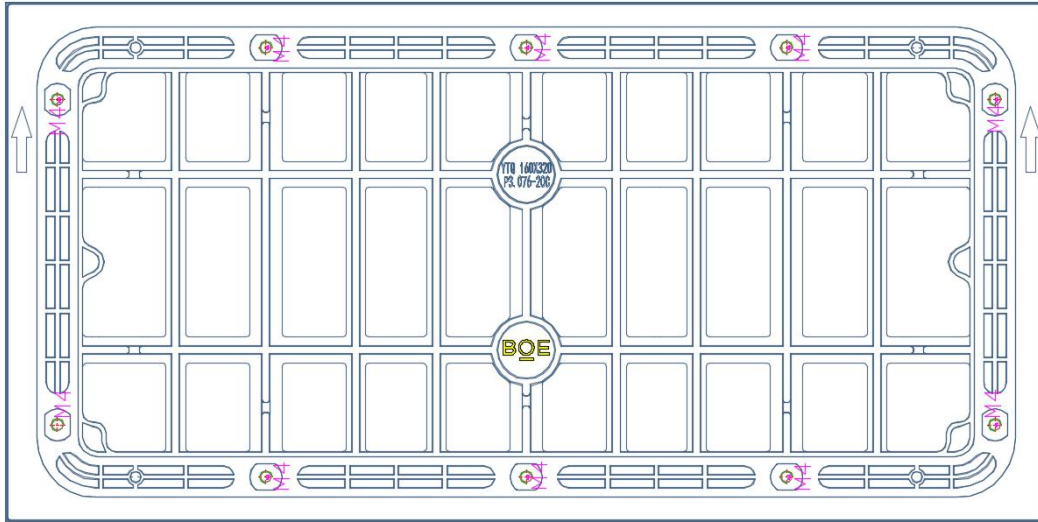
### 1.4 LOGO location

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## 2. Product Specification

Category	Parameters	Specification
<b>Module</b>	Pitch(mm)	3.076
	LED Model	SMD1415
	LED Type	Gold/Copper wire
	Module resolution	104*52
	Module size ± tolerance(mm × mm × mm)	319.9 ± 0.1*159.9 ± 0.1*16 ± 0.2
	Module weight ± tolerance(g)	430 ± 10
	Module flatness (mm)	≤0.7
	Pixel density (dots/m <sup>2</sup> )	105625
<b>Optical Parameters</b>	White balance brightness (cd/m <sup>2</sup> )	≥5000
	Color temperature	9000-15000K
	Horizontal viewing angle	≥120°
	Vertical viewing angle	≥120°
	View distance (m)	≥3
<b>Electrical Parameters</b>	Maximum power consumption per module (W)	40
	Operating voltage (V)	5
	Signal input interface type	HUB75
<b>Processing performance</b>	Scanning mode	1/13
	Frame change frequency (Hz)	60
	Refresh frequency (Hz)	≥3840
	Driving mode	Constant drive
	Grayscale (Bit)	13
<b>Operating Parameters</b>	Continuous operation time	168hrs, Support uninterrupted display
	Average trouble-free working time	≥5000 hours

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Category	Parameters	Specification
	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)	-10~50
	Storage temperature (°C)	-20~50
	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 )

### 3. Definition of signal interface

HUB75		Pin	Signal	Function	Pin	Signal	Function
1	●	1	R1	Red data signal	2	G1	Green data signal
3	●	3	B1	Blue data signal	4	GND	GND of power supply
5	●	5	R2	Red data signal	6	G2	Green data signal
7	●	7	B2	Blue data signal	8	N	Suspended
9	●	9	A	Line control signal	10	B	Line control signal
11	●	11	C	Line control signal	12	N	Suspended
13	●	13	CLK	Clock signal	14	LAT	Latch signal
15	●	15	OE	Enable signal	16	GND	GND of power supply

### 4. Mounting holes

#### 4.1 Module mounting hole location ( Unit: mm )

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