

Product Specification



Product Type: LED Display

Model: EM4429

Document Version: V2.0

I. Product Characteristics

Die-cast aluminum module, stable and reliable

The device adopts die-cast aluminum modules, resulting in a smoother display screen and improved heat dissipation efficiency. The module is designed with a 45° beveled edge, allowing for seamless corner transitions. With a total thickness of only 68mm, the device is protected by an IP66 rating, ensuring normal operation in various harsh environments.

Higher brightness, better display performance

Higher brightness, higher refresh rate, and better grayscale performance. With a brightness of 7000 nits, it can display vivid images under any lighting conditions, without being constrained by the environment.

Smart detection function, easy maintenance

The device is equipped with an smart module, enabling timely feedback on the operating status of the displays deployed in various locations. It is accompanied by a patented front maintenance lock design, enhancing the stability of the cabinet. The entire cabinet supports full front and rear maintenance, with the power supply being replaceable as a whole, allowing for quick disassembly and maintenance in just 5 seconds.

Energy-saving design

The E28 adopts the most advanced energy-saving solution, equipped with a self-developed intelligent voltage-regulating power supply. It provides power to the module with low voltage and current. The internal power supply box uses a wireless cable connection method, reducing power consumption by 50% compared to traditional outdoor products. Even black screen mode, the power consumption of a single cabinet is reduced to 2w.

Power backup, uninterruptible control system.

This remarkable system incorporates a power backup feature, providing seamless continuity in operations, even during unforeseen power outages. The receiving card, ingeniously designed with independent power supply capabilities, guarantees uninterrupted signal transmission, even in the event of a power supply failure.

II. Product Parameters

Specifications		Parameter Values
Physical parameters	Pixel composition	SMD1415
	Pixel pitch	P2.97
	Resolution of LED panel (dots)	84×84
	Cabinet resolution (dots)	168×336
	Pixel density (dots/m ²)	112896
	LED panel dimensions (L*W)/(mm)	250×250
	Cabinet dimensions (L*W*H)/(mm)	500×1000×68
	Cabinet material	Aluminum profile
	Cabinet panel composition (W*H)	2×4
	Cabinet weight (kg/m ²)	32
	Cabinet weight (kg/single unit)	16
	Maintenance mode	Front & rear
Optical parameters	Color processing depth (Bit)	18+
	Contrast	≥ 10000:1
	Refresh rate (Hz)	3840
	Driving method	1/14
	White balance brightness (nit)	5500
	Angle of view (H/V°)	140/120
Electrical parameters	AC input voltage (V)	AC100~240
	AC input frequency (Hz)	50/60
	Maximum power consumption per cabinet (W/Unit)	260
	Average power consumption per cabinet (W/Unit)	87
	Maximum power consumption (W/m ²)	520

	Average power consumption (W/m ²)	173
	Operating temperature (°C)	-30~60
	Operating humidity (RH)	10~90% without condensation
	Brightness uniformity	≥ 95%
Note: Due to different configurations, parameters may vary, for reference only. Brightness and power consumption indicators may have up to ± 15% variation due to LED batch differences.		

III. Special Statement

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