



Z Series

Outdoor Power-saving Fixed LED Display

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1. Design Concept

Pain points of traditional billboard and LCD display in
outdoor application scenarios



Traditional Billboard

Advertising content replacement process can be troublesome;

High maintenance and labor costs;

High requirement for ambient light;

Extra auxiliary lighting equipment shall be needed at night.



LCD Screen

limited display area and can not attract
enough target audience;

low IP rating without rain and snow proof
performance;

Screen brightness is greatly affected by
affected by the ambient light.





LED Display

- LED advertising display is featured with HD image, high brightness, vivid color, long viewing distance, wide audience and etc.;
- Display contents replacement can be conducted through remote control, thus to avoid on-site works;
- Eye-catching display image can attract more audience, achieving ideal advertising effect.

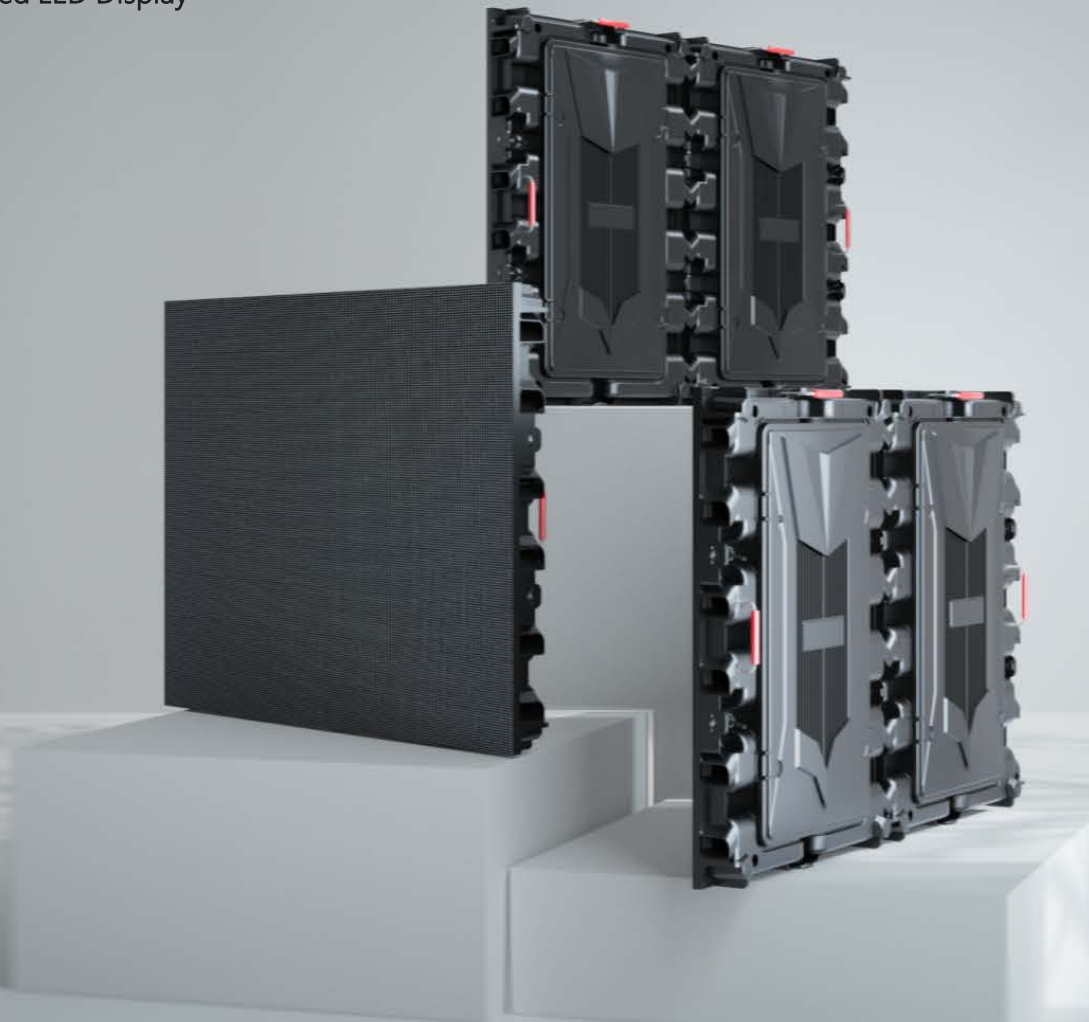
2. Product Competence

A better choice for outdoor large-and-middle-sized commercial display compared with traditional display product



Z Series

Outdoor Power-saving Fixed LED Display



Brand Cabinet



Efficient & Energy Saving



Convenient Maintenance



Safety Compliance Product



High IP Rating



RoHS
ECO Friendly

HD Image with Vivid Color Rendition



- ✓ HD image: 5000 nits+ brightness, high contrast ratio;
- ✓ Support 3840Hz high refresh rate, high gray scale level under low brightness;
- ✓ High-quality PWM driver IC enables lifelike color rendition;
- ✓ Support single pixel dot brightness and chroma calibration, ensuring screen brightness and chroma uniformity.



Low Power Consumption, Less Operation Cost



SUMMER
THING

- Specially designed driver circuit realize branch-circuit power supply, reducing power loss to the maximum as well as heat quantity, thus to avoid color block due to Red LEDs attenuation variance caused by uneven heat distribution;
- Branch-circuit power supply technology and self-developed PFC power supply can effectively reduce screen power consumption;
- Lower cable and power capacity investment, saving electricity cost so as to greatly cut down on operation cost.

Self-develop Efficient PFC Power Supply

- Harmonic wave is usually generated during power supply switching, which will cause harmonic additional loss to electrical equipment in power network , equipment overload, overheating and harmonic overvoltage to accelerate equipment insulation degradation;
- Apply PFC power supply to effectively suppresses the harmony wave, and clean the power network to improve the power quality and reduce screen power consumption.



Branch-circuit Design Power-saving Operation

- Different from traditional 5V LED display power supply plan, the Red IC of Z series adopts **3.4V** driver, while Blue and Green IC uses **4.2V** driver, enabling branch-circuit power supply and achieving remarkable power-saving operation.

High-precision Cabinet Smooth Screen Surface

- Z series applies die-casting magnesium cabinet with high-precision CNC processing technology, ensuring smooth screen surface;
- Fast connection between cabinets enables seamless splicing effect.

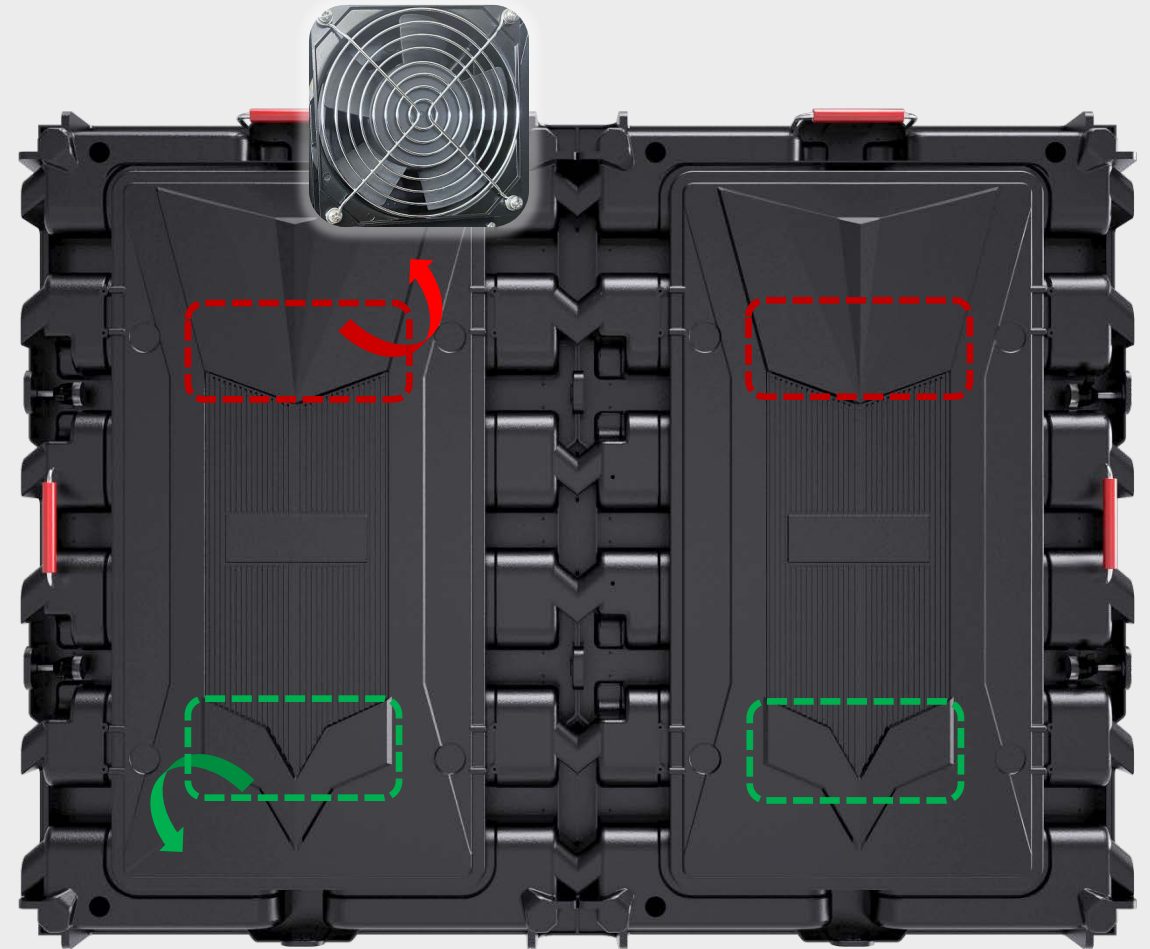
High IP Rating

- Fully-enclosed cabinet, **IP65** for the front and **IP54** for the rear;
- Stable product performance with water-proof, damp-proof and dust-proof functions, thus to satisfies outdoor all-weather application environments;



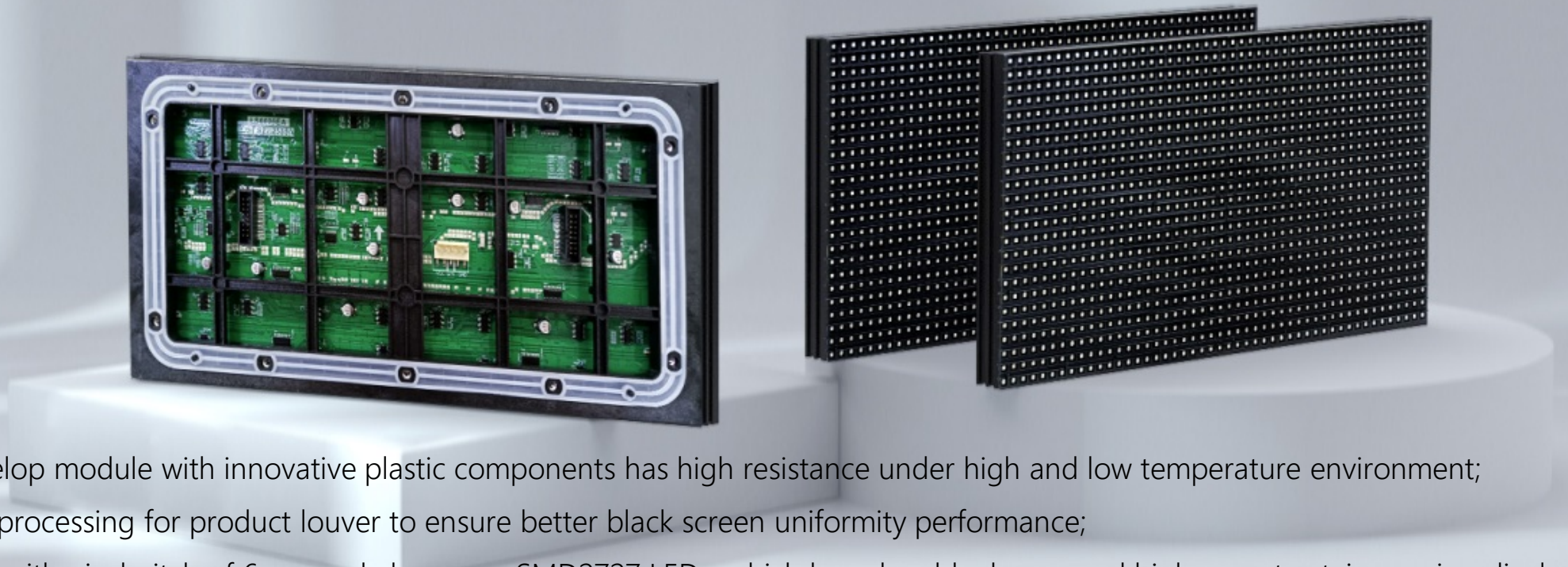
Active Cooling Method, Better High-temp. Environment Adaptability

- **220V** fan is used to improve convective cooling, and built-in thermostat can automatically adjust screen temperature;
- Power-saving cooling method and long-lifespan fan.



The cold air enters from the bottom of cabinet, and the hot air is discharged from the upper part through the active cooling of fan.

Self-develop Structure, Reliable Performance



- Self-develop module with innovative plastic components has high resistance under high and low temperature environment;
- Painting processing for product louver to ensure better black screen uniformity performance;
- Products with pixel pitch of 6mm and above use SMD2727 LEDs, which have less blank area and higher contrast, improving display effect.

Self-develop System, User-friendly Operation

Self-develop system and hardware can achieve following functions:

Self-adaptive parameter configuration

Calibration data auto matching loading

System auto update

Simple Installation, Effortless Maintenance

- light-weight cabinet with fine design and simple installation structure;
- Support calibration data storage and one-button data readback after module replacement;
- Rear-access design, both time and labor saving;
- Support different outdoor billboard installation structure.

Remote Centralized Control

- Centralized control function¹ can be remotely operated to realize flexible management;
- Support PC end² to conduct multi screen synchronous / asynchronous picture, video and other contents displaying, as well as screen status monitoring.

1. Centralized control function shall achieved by installing Nova control software;

2. Synchronous / asynchronous displaying requires PC operation system is Windows7 and above, or macOS10.10 and above;



ECO Friendly

- Brand LEDs/power supply/driver, ensuring stable operation;
- Ground connection for display module, cabinet and power supply to enable EMI performance and decrease environmental electromagnetic radiation;
- Components including LEDs meets requirements of ROHS directive, and more certifications are on the way.



Compliance, Safe and Stable

- Preassembled cabinet shall pass the safety test before delivery, guaranteeing product quality;
- Fully enclosed cabinet suits for all-weather operation with pest and rodent proof design, ensuring operation safety;
- National standard pure copper cable with reasonable load and protective circuit, safeguarding product from fire.



3. Product Specification

Data sheet of product specification



Product Parameters

Product Model	QZ6340	QZ6360	QZ63A0
LEDs Type	SMD1921	SMD2727	SMD2727
Pixel Pitch (mm)	4	6.67	10
Module Size	320*160	320*160	320*160
Refresh Rate (Hz)	3840/1920	3840/1920	3840/1920
Brightness (cd/m ²)	4500-5500	5000-6000	5000-6000
Cabinet Size (mm)	1280*960*130	1280*960*130	1280*960*130
Cabinet Material	Die-casting Magnalium	Die-casting Magnalium	Die-casting Magnalium
Weight	35kg/Cabinet; 29kg/m ²	35kg/Cabinet; 29kg/m ²	35kg/Cabinet;29kg/m ²
Maintenance	Rear Access	Rear Access	Rear Access
Max./Ave. Power Consumption (W/m ²)	685/228	685/228	685/228
Working Temperature (°C)	-20--50	-20--50	-20--50
Working Humidity (RH)	10%~90%	10%~90%	10%~90%

4. Application Scenario

Installation cases including outdoor billboard ,
building advertising.







5. Company Profile

QSTECH aims to provide customers with more intelligent,
convenient and efficient product experience





A CVTE COMPANY



Established in July 1992, QSTECH Co., Ltd. was the first LED manufacturing enterprise in China, and gradually grew into a national high-tech enterprise specializing in LED application product R&D, production, sales and after-sales service.

So far, system integrators and end customers coming from more than 140 countries and regions have enjoyed competitive products and superior service of QSTECH.

SINCE 1992

LED Technology, Solutions & Services

Independent Developed Software and Hardware

Not only has QSTECH held cutting-edge and comprehensive product certifications and more than 70 independent R&D patents and software copyrights, but it has passed ISO9001, ISO14001, OHSAS18001, CE, CCC, RoHs, ETL, FCC, TUV, UL, EMC and other domestic and abroad recognized certifications.

QSTECH has always contributed itself in offering high-quality, reliable and cost-effective products.



Marketing & Service Network

QSTECH owns QSTECH (Xi'an), QSTECH (Shenzhen), QSTECH (Beijing), which is equipped with a mature operating system containing R&D center, manufacturing center, sales and after-sales service center.

And the group has built overseas sales and service centers in Milan, Amsterdam, Dubai, New York, Los Angeles and Houston.





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