

Product Specification

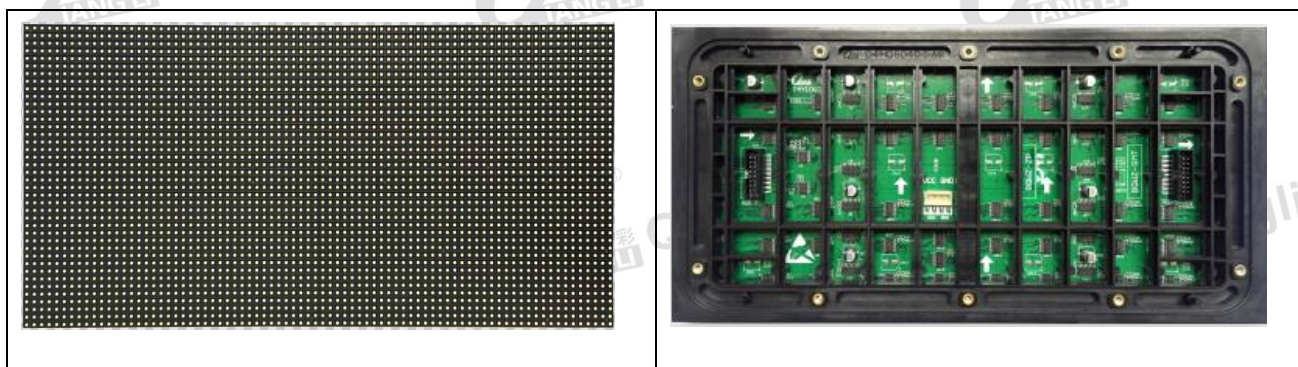
Product: Outdoor Full Color Q4 1/10 Scan Module

Item No.: Q4-10S-Plus-2525

Version: 2.0

1. Module Picture

Front View	Rear View
------------	-----------



2. Suggestion Cabinet -(960*960 Magnesium Cabinet)



3. Technical Specification

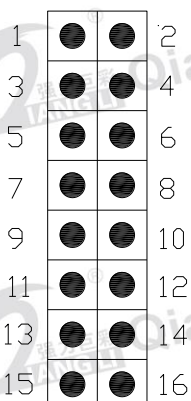
Module	Pixel Pitch	4mm	Pixel Density	62500Dots/m ²
	Configuration	1R1G1B	LED Lamp	SMD2525
	Size (Width*Height*Depth)	320*160*18mm	Weight	0.52kg±0.01kg
	Structure	Lamp & IC in same PCB	Resolution	80*40=3200Dots
	Input Voltage (DC)	4.5±0.1V	Maximum Current	≤10.34A
	Power Consumption	≤47W	Driving Method	Constant Current 1/10 Scan
	40A Power Supply for	2-3 pcs module	80A Power Supply for	5-6 pcs module
	40A PFC Power Supply for	3-4 pcs module		
Cabinet (Magnesium Cabinet)	Cabinet Size (Width*Height*Thickness)		960mm*960mm*104.5mm(with module, cabinet)	
			960mm*960mm*169.5mm(with module, cabinet, connecting plate)	
	Cabinet Pixel Density		240*240=57600 Dots	
	Cabinet Area		0.9216 m ²	
	Cabinet Weight		29.7kg±0.5 kg	
	Cabinet Max Power Consumption		≤838W	

	Average Power Consumption (1/3 Max)		$\leq 279W$	
	Distribution Power (Power Supply Capacity 78%)		$\leq 1074W$	
Screen [®]	Brightness	$\geq 5000cd/m^2$	Brightness Uniformity	> 0.95
	Horizontal Viewing Angle	140 ± 10 degree	Vertical Viewing Angle	130 ± 10 degree
	Best Viewing Distance	$\geq 4m$	Black Spot Ratio	< 0.0003
	Max Power Consumption	$\leq 909W/m^2$	Operation Environment	Outdoor
	Grayscale	14-16bits (RGB each)	Display Color	4398 Billion
	Frame Frequency	≥ 60 frame/sec	Refresh Frequency	≥ 3840 Hz
	Control Mode	Computer control, Point-to-point	Brightness Adjustment	256-grade manual / automatic
	Life Span	$\geq 100,000$ hours	Average Failure Free Time	$\geq 10,000$ hours
	Attenuation (3 years later)	$\leq 15\%$	Operating Humidity	10%-90% RH

4.Signal Pin

Pin	Signal	Function	Pin	Signal	Function
1	RD1	Red data signal	2	GD1	Green data signal
3	BD1	Blue data signal	4	GND	GND
5	RD2	Red data signal	6	GD2	Green data signal

HUB75



7	BD2	Blue data signal	8	GND	Line power control signal
9	A	Line power control signal	10	B	Line power control signal
11	C	Line power control signal	12	D	Line power control signal
13	CLK	Line power control signal	14	LAT	Data locking signal
15	OE	Enable signal	16	GND	GND

5.Precautions

Item		Description
Environmental Precautions	Temperature requirement	Storage temperature range: -10 ° C - 30 ° C, over 30 ° C needs to do cooling treatment. Operating temperature range:-40℃-80℃, other temperature range, need to install temperature control equipment. Lamp surface temperature (working time): ≤85℃, temperature control equipment is required to be installed when temperature exceeding the standard
	Humidity requirement	Storage humidity range: 10% RH-60% RH, humidity over 60% RH requires dehumidification treatment. Operating humidity range: 10% RH-90% RH, If the humidity exceeds the standard, it must be dehumidified before it can be used normally.
	Storage overdue processing	If the product has been stored for more than 3 months, need to do 6 hours of aging test before it can be used. The aging mode is: 10%Full brightness setting-1H, 30%Full

		brightness setting-1H, 60%Full brightness setting-2H, 80%Full brightness setting-1H, 100%Full brightness setting-1H (increase brightness gradually in aging test)
	Avoiding corrosive gas	Corrosive gas contains salt or acid gas in the environment, may cause corrosion of electronic components, crystallization, leakage and so on.
	Avoiding electromagnetic radiation	The display screen should not be installed in an environment where electromagnetic radiation and radio frequency radiation exceed the field strength of 5V/m interference source.
	Electrostatic hazard, Prevent lightning strikes	The metal components of the screen, the shell of power supply and the cabinet should be grounded well, and the grounding resistance should be less than 10Ω. Prevent electrostatic damage to electronic devices in humid environment, while avoiding electric leakage to harm human body.
	Personal injury	The angle and height of the display installation should be appropriate, and the sharp corners should be packaged to prevent damage to the human body from the tough outer casing.
Operational precautions	Electro-static Protection	The worker must wear an anti-electrostatic wrist strap and anti- electrostatic glove. Various tools must be strictly grounded during assembly
	Product batch control	Different batches of products cannot be installed in the same screen, otherwise there will be color blocks (mosaic) on the display.
	Product wiring	The module cannot be directly connected to 220V, and the module positive and negative poles connection must be right.
	Disassembly & transportation	Do not throw, push, squeeze or press the module to avoid damaging to the display screen.

	Installation Torque Control	In connection with power supply, it is necessary to ensure tightening of terminal joint screw to prevent joint position from loosening, resulting in wire burning or product damage caused by high contact resistance. Torque of M4 screw is 6.0-8.0 Kgf.cm, and that of M3 screw is 4.0-6.0 Kgf.cm.
	Prohibited work with electricity	It is forbidden to assemble the LED module when the power is on. The LED module should be assembled with the main power input disconnected. It is not allowed to insert the power wire and signal cable when there are with electricity.
	Display control	Please do not display static picture or text, for this may cause LED lamp brightness go down seriously or LED lamp die. Please play moving pictures or text.
	Magnet installation requirement	Place in environment temperature below-10°C should use screw installation. Magnet installation is not suggested, for the module may deform and influence the evenness of LED display.
	Environmental inspection	Temperature and humidity meters should be equipped on the installation site to monitor the surrounding environment of the screen in time. After heavy rain, it is necessary to check whether there are any problems such as dampness, water droplets and over humidity in the screen in time.
	Avoid construction work to installed LED screen	It is strictly forbidden to rebuild after the installation of the LED display screen, so as to prevent the LED display screen from being affected by the impact of high current and dust, such as welding, electric saw and other equipment.

