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東京 Qiangliled

型型
Qianglil

Product Specification

TANG LI

流<mark>机</mark>Qiangliled

ATEM Qianglil

Indoor Full Color P4.0 1/20 Scan Module **Product:**

Item No.: gliled

Q4-20S-2020

Version:

नेहिंग Qiangliled

製造型 Qianglil

造版 Qiangliled

Angii Qiangliled

Angui Qianglil

建边票 Qiangliled

漫遊縣 Qiangliled

Website: www.qiangliled.com

建造縣 Qianglil



1. Module Picture



2. Suggestion Cabinet -(640*480 MGLED)





3. Technical Specification

	Pixel Pitch	4mm	Pixel Density	62500Dots/m²	
R	Configuration	1R1G1B	LED Lamp	SMD2020	
强力巨彩	Size (Width*Height*Depth)	320*160*14mm	Weight	0.35kg±0.01kg	
TAIL	Structure	Lamp & IC in same PCB	Resolution	80*40=3200Dots	
Module	Input Voltage (DC)	4.5±0.1V	Maximum Current	≤5.3A	
®	Power Consumption	≤24W ®	Driving Method	Constant Current 1/20 Scan	
强力巨彩 IANG LI	40A Power Supply for	5-6pcs module	80A Power Supply for	10-12pcs module	
	40A PFC Power Supply for	6-7pcs module			
®	Cabinet Size (Width*Height*Thickness)		640*480*84mm(with connecting plate)	module, cabinet,	
强力巨彩 ANG LI	Cabinet Pixel Density		160*120=19200Dots	强力巨彩 Qlalig	
Cabinet	Cabinet Area		0. 307 m²		
(MGLED)	Cabinet Weight		6.95kg±0.05 kg		
®	Cabinet Max Power Consumption		≤143W ®		
强力巨彩	Average Power Consumption (1/3 Max)		≤48W	Papell Qiang	
TANG	Distribution Power (Power Supply Capacity 78%)		≤183W		
	Brightness	≥600cd/m²	Brightness Uniformity	>0.95	
8	Horizontal Viewing Angle	140 ±10 degree	Vertical Viewing	130 ±10 degree	
强力巨彩 IANG LI	Best Viewing Distance	≥4m /强力巨彩 Q13	Black Spot Ratio	< 0.0003	
	Max Power Consumption	≤465W/m²	Operation Environment	Indoor	
Screen	Grayscale	12-14bits (RGB each)	Display Color	4398 Billion	
强力巨彩 TANG LI	Frame Frequency	≥60 frame/sec	Refresh Frequency	≥1920Hz olang	
	Control Mode	Computer control, Point-to-point	Brightness Adjustment	256-grade manual / automatic	
	Life Span	≥100,000 hours	Average Failure Free Time	≥10,000 hours	
®	Attenuation (3 years later)	≤15% ®	Operating Humidity	10%-65%RH	
强力巨彩	Qlans	通加斯 QIS	e i i	Manage Qiang	

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Pin	Signal	Function	Pin	Signal	Function
1 選	new Qia	angilio	2	温力巨彩	Green data
U TAT	RD1	Red data signal	2	GD1	signal
3	BD1	Blue data signal	4	GND	GND
5		Ded data simual	6		Green data
5	RD2	Red data signal	6	GD2	signal
7	- Oia	angliled	8	- 平	Line power
强	BD2	Blue data signal	0	E	control signal
9		Line power control	10		Line power
9	A	signal	10	В	control signal
11	®	Line power control	12		Line power
	C	signal \ i \ e O	12	D	control signal
13 A	加度形 QI	Clock signal	14	異次長彩	Data locking
13 A	CLK	Clock signal	14	LAT	signal
15	OE	Enable signal	16	GND	GND

5. Precautions

5. Preca	utions	Quangliled Quanglil
Item		Description
Bangin Qi Environmen	Temperature requirement	Storage temperature range: -10 ° C - 30 ° C, over 30 ° C needs to do cooling treatment. Operating temperature range: -20 ° C -40 ° C, other temperature range, need to install temperature control equipment. Lamp surface temperature (working time): ≤60°C, temperature control equipment is required to be installed when temperature exceeding the standard
tal Precautions	Humidity requirement	Storage humidity range: 10% RH-60% RH, humidity over 60% RH requires dehumidification treatment. Operating humidity range: 10% RH-65% 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 one month, 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-2H,



TANGL		80%Full brightness setting-1H, 100%Full brightness setting-1H (increase brightness gradually in aging test)
B AMELIANGLII QI	Dust-proof requirements	Indoor products have no protection level or IP30, and the display should not be exposed to heavy dusty environments, such as decoration and renovation. Special protection is required to protect the display. Installing LED display screen during decoration is strictly prohibited.
	Avoiding corrosive gas	Corrosive gas contains salt or acid gas in the environment, may cause corrosion of electronic components, crystallization, leakage and so on.
B B B B B B B B B B B B B B	Avoiding electromagne tic 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.
(8)	Avoid strong light	Strong light will affect the display effect and life span of screen. It should be install in the direction where there is shorter direct sun shining.
) _{提力巨彩} Qi IANGU	Keep away from water	Indoor products have low level of protection, water can make the module short circuit, and leads to circuit device damage, so it is necessary to keep away from the water source.
® ADEN ANGLI	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.
B B B B B B B B B B B B B B B B B B B	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.
ANGLI QI	Special environment	Display screen for special environment (1, seaside, swimming pool, bathing room, basement, tunnel; 2, chemical environment, vulcanization environment, halogen environment; 3, dust, dusty environment; 4, strong ultraviolet environment; 5, the environment of strong electromagnetic fields; 6, less than -20 degrees, higher than +40 degrees of the environment), The review process is required before placing the order.
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
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IANGL	Product batch control	Different batches of products cannot be installed in the same screen, otherwise there will be color blocks (mosaic) on the display.		
5. ₁₅₈ Qi	Product wiring	The module cannot be directly connected to 220V, and the module positive and negative poles connection must be right.		
TANGLI	Disassembly and transportation	Do not throw, push, squeeze or press the module to avoid damaging the display screen.		
B B D B D D D D D D D D D D D D D D D D	Disassembly and maintenance liquid protection	Sweat or other liquid cannot be dripped on the display screen during disassembly and assembly operation. If it is dripped, then use alcohol to clean the product, to prevent the liquid from corroding the product.		
B 温力巨彩 Q. IANG II	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.		
® 温力巨彩 Q. IANG II	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.		
5. ₁₅ 0i	Prohibited touch with electricity	It is forbidden for people to touch the LED display screen when the LED screen is in usage, so as to avoid electrostatic breakdown of LED lights and chips and other components caused by human body friction.		
TANGLI	Environmenta I 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.		
Ang I	Requirement s for moisture proof	Within 10% ~ 65% RH relative humidity range, it is recommended to turn on the display 1 time per day, and work at least 4 hours to remove moisture on the display. Screen When the relative humidity of the environment is over 65% RH,		



TANGII Qiangliled	S S S S S S S S S S S S S S S S S S S	dehumidification treatment should be carried out for the operating environment. It is suggested to use the screen for more than 8H per day in this environment, and doors and windows should be closed at night to prevent the display from dampness. When the display screen is not used for a long time, it is necessary to preheat and
Dangliled Angliled	B t rANGI	dehumidify the whole screen for 8H before using, so as to avoid damaging the lamp tube after dampness. The dehumidification methods are: full brightness set 10%- 1H, full brightness set 30% 2H, full brightness set 60% -2H, full brightness set 80% -2H, full brightness set 100% -1H (brightness gradually increasing aging).
) TANGLI Qiangliled	B A A A A A A A A A A A A A A A A A A A	After usage , immediately put into flight case and seal the flight case; In each flight case, please put a desiccant or hygroscopic bag of not less than 50g. In the range of 10% to 65% RH relative
Dangliled Angliled	B ANG I E	humidity, the screen should be lighted on more than 2H every half month; More than 65% RH and in the resurgence weather, the screen must be lighted on more than 2H every week. After finished the display, need to put it back to flight case, sealed and stored. (please check whether there is any
Dangliled Qiangliled	Rental f t t display:	failure of the desiccant or hygroscopic bag in the aviation, it needs to be replaced every 2 months, and more desiccant can increase the dryness inside the box.)
Dangliled Nangliled	R S S S S S S S S S S S S S S S S S S S	When the display screen is not in use for a long time, it is necessary to reduce the brightness of the whole screen by 50% in advance and play it for 12 hours, and preheat it for "dehumidification" 12H to avoid damaging the light tube after the LED screen is damped.
5 Qiangliled	® r	While renting, do not touch the display screen with water. If there is any water, make sure that the water on the screen is dried. After 2H, light the display screen 2H,

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Avoid construction work to the installed LED screen	It is strictly forbidded screens as outdoespecially in the opeon of the strictly forbidden to rebuild after LED display screen, so as to preven screen from being affected by the and dust, such as welding, electric equipment.	n air environment. er the installation of the ent the LED display impact of high current
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