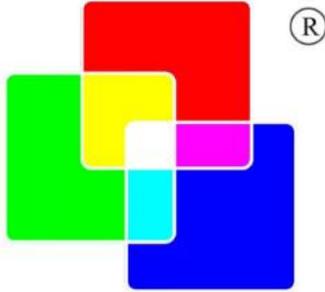


PREPARED BY : (制作人 :)	 <p>EASYQUICK TECHNOLOGY SPECIFICATION 深圳市易快来科技股份有限公司</p>	SPEC No: (规格型号:) EQT800WEJ025G
R&D APPROVED BY: (研发核准:)		FILE No : (档案编号 :) EQ2023120601
QC APPROVED BY: (品质核准)		ISSUE (日期) 2023-12-06 PAGE (页码) 8 APPLICABLE DIVISION (适用范围) <input checked="" type="checkbox"/> Mobile LCD DIVISION <input checked="" type="checkbox"/> 手机液晶模组

For **800*1280** TFT LCD Module Model No

EQT800WEJ025G

SPEC

Customer side signature (客户方签名)			
部门 \ 签名	Acknowled-ge (承认人)	Date (日期)	Remarks (备注)
Structure (结构)			
Electronics (电子)			
Item (项目)			
Quality (品质)			

EASYQUICK TECHNOLOGY

(易快来科技)

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1. Application (应用)

This data sheet is to introduce the specification of **EQT800WEJ025G** active matrix **16.7M** color TFT LCD module.

Main color LCD module is controlled by Driver IC **JD9366TC**.

If any problem occurs concerning the items not stated in this specification, it must be solved sincerely by both parties after deliberation.

As to basic specification of driver IC refer to the IC specification and handbook.

本规格书是为了介绍 **EQT800WEJ025G** 有源矩阵 **16.7M** 彩色 TFT LCD 模块的规格。

主彩色液晶显示模块由驱动芯片 **JD9366TC** 控制

本规范未尽事宜如有问题，双方必须认真协商解决。

驱动 IC 的基本规格参照《IC 规格书》和相关《手册》。

2. Construction and Outline (结构与大纲)

Construction: LCD panel, Driver (COG), FPC with electric components, **24** White LED lump, prism sheet, diffuser, light guide and reflector, plastic frame to fix them mechanically.

There shall be no scratches, stains, chips, distortions and other external drawbacks that may affect the display function.

In order to realize thin module structure, double-sided adhesive tapes are used to fix LCD panels. As these tapes do not guarantee to permanently fix the panels, LCD panel may rise from the module when shipped from factory.

So please make sure to design the system to hold the edges of LCD panel by the soft material such as sponge when LCD module is assembled into the cabinet.

结构:液晶面板，驱动或 COG，带电子元件的 FPC，**24** 个白光 LED 块，棱镜片，扩散器，导光器和反射器，塑料框架机械固定。

不应有可能影响显示功能的划痕、污迹、芯片、畸变等外部缺陷。

为了实现薄型模块结构，采用双面胶带固定液晶面板。由于这些胶带不能保证永久有效固定面板，LCD 面板在出厂时可能会从模块内移动。

所以在液晶模块组包装和进柜时，请务必将包装结构设计成用海绵等软材料支撑液晶面板的边缘。

3. Mechanical Specification (参数规格)

Table 1 (表 1)

Item(项目)	Specifications(规格)	Unit (单位)
Screen size (屏幕尺寸)	8	inch
Display mode (显示模式)	Normally black	-
Active area (显示范围)	107.64(H)×172.224(V)	mm
Display format (分辨率)	800RGB (H) x 3 x 1280 (V)	-
Pixel size(像素)	0.04485(H) x0.13455(V)	mm
Outline Dimensions (外形尺寸)	120.88(W)×195.84(H)×3.25(D)	Note 1
View Angle (视角)	85/85/85/85	
Base color Notes (基色)	16.7M	-
Weight (重量)	TBD	
Driver IC (驱动 IC)	JD9366TC	

Note 1: Not include FPCs & Bezel extrude structure.

备注 1: 不包括排线和面板构造

4. Interface signals (接口信号)

Table 2 (表 2)

Pin No.	LCD 接口 pin 定义	LCD 接口说明
1	GND	地
2	AVDD5V8	模拟电路的电源(+5.8)。
3	AVDD5V8	模拟电路的电源(+5.8)。
4	NC	NC
5	AVEE-5V8	模拟电路的电源(-5.8)。
6	AVEE-5V8	模拟电路的电源(-5.8)。
7	GND	地
8	GND	地
9	D3N	MIPI 信号线 0-
10	D3P	MIPI 信号线 0+
11	GND	地
12	D0N	MIPI 信号线 1-
13	D0P	MIPI 信号线 1+
14	GND	地
15	CLKN	MIPI 时钟线-
16	CLKP	MIPI 时钟线+
17	GND	地
18	D1N	MIPI 信号线 2-
19	D1P	MIPI 信号线 2+
20	GND	地
21	D2N	MIPI 信号线 3-
22	D2P	MIPI 信号线 3+
23	GND	LCD_ID2
24	GND	触摸面板上的同步信号
25	ID0	LCD_ID0
26	ID1	LCD_ID1
27	PWM	背光启用信号 (CABC)。
28	TE	触摸面板上的同步信号
29	REST	LCD_复位
30	VDD1V8	数字输入/输出的电源(1.8V)。
31	VDD1V8	数字输入/输出的电源(1.8V)。
32	TP_SPI_CS	串行接口芯片启用 SPI 接口, 有源低 (默认拉高)。
33	TP_SPI_SCLK	SPI 接口的串行接口时钟输入。



34	TP_SPI_MOSI	串行闪存接口的 SPI 主数据输出。
35	TP_SPI_MISO	SPI 接口的串行接口数据输出。
36	TP_INT	TP_中断
37	TP_RST	TP_复位
38	GND	地
39	FB1	背光负极
40	FB2	背光负极
41	FB3	背光负极
42	NC	NC
43	NC	NC
44	VLED	背光正极
45	VLED	背光正极

Notes: 1.FPC Connector Type

备注: 1.排线连接器类型

Table 3 (表 3)

Assembled on (组装)	Item (条目)	Description (描述)
Phone PWB (手机主板)	Connector Type (连接类型)	Connection (BTB)
	Pin Amount (数量)	45
	Manufacturer (制造商)	润磊精密
	Part Number(零件号)	FP0310-045G0YT



5. LED back light (背光灯)

At main panel the back light uses 24 pcs edge light type white LED.

在背光的主面板用 24 颗白色 LED 灯

Table 4 (表 4)

Parameter (参数)	Symbol (样品)	Min. (最小值)	Typ. (标准值)	Max. (最大值)	Unit (单位)	Remark (备注)
LED Voltage (LED 电压)	VLED	21.6	24	26.4	V	
LED Current (LED 电流)	ILED	60	60	60	mA	
Power Consumption (电功率)	WLED	1296	1440	1584	mW	
Number of LED components (LED 组成部件数量)		24			PCS (片)	
Connection Type (Serial/Parallel/Other) (连接类型(串联/并联/其他))		3S8P LEDs				

Note:

*24 pcs of LED

*Please consider Allowable Forward Current on used temperature

*24 颗灯

* 请考虑允许范围内的正向电流的使用温度

■ Ambient Temperature vs. Allowable Forward Current

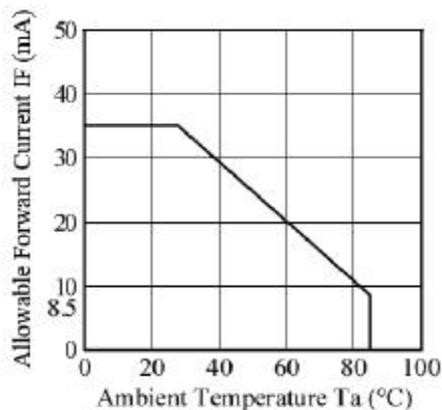
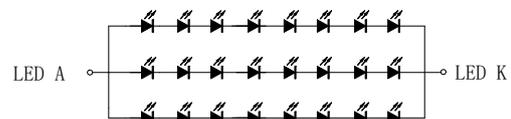


Fig.1 (图 1)

LED CIRCUIT DIAGRAM:



$$3 \times 8 = 24 \quad V_F = 21.6 - 26.4V \quad I_F = 60mA$$

Fig.2* Schematics drawing of lighting (绘制照明图 图.2)

Note: Logic high and low levels are specified as 30% and 70% of IOVCC for Input signals.

Note: Ta = -30 to 70 °C, IOVCC=1.65V to 3.3V, VCI=2.5V to 3.3V, GND=0V

备注: 指定逻辑高和低电平作为输入信号IOVCC的70%和30%。

备注: Ta = -30 to 70 °C, IOVCC=1.65V to 3.3V, VCI=2.5V to 3.3V, GND=0V



6. Optical Characteristics (光学特征)

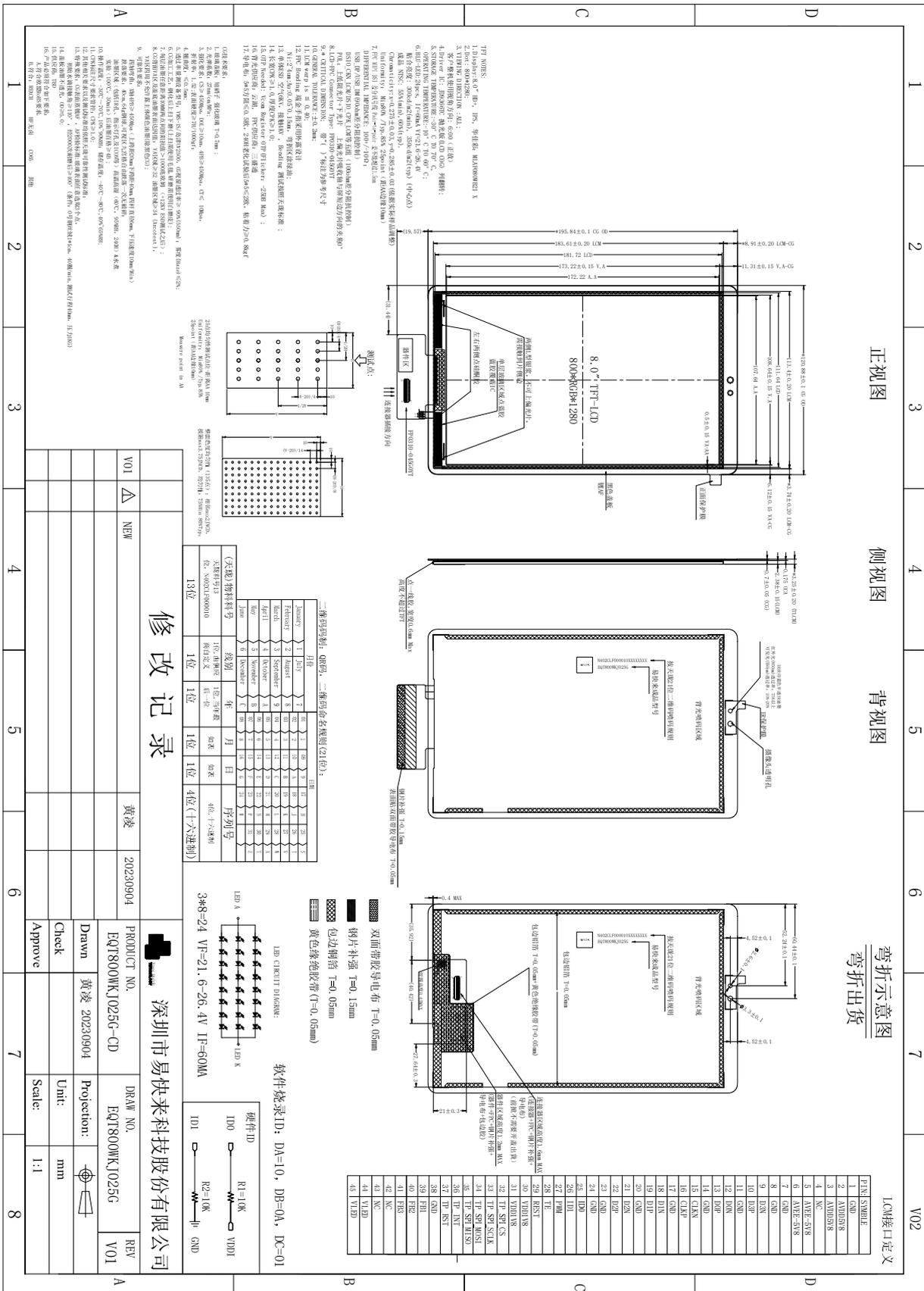
Table 5 (表 5)

Item 项目		Symbol (样品)	Condition (条件)	Min. (最小值)	Typ.(标准值)	Max. (最大值)	Unit (单位)	Remark (备注)
Response time (响应时间)	Rise (上升)	Tr +Tf	$\theta=0^\circ$	-	25	45	ms	
	+Fall (下降)							
Brightness (亮度)		Br	$\theta=0^\circ$	300	350	-	Cd/m ²	
Contrast ratio (对比度)		CR	$\theta=0^\circ$	1200	1500	-	-	
Viewing angle(with Polarizer) (视角)	Top (顶部)		CR \geq 10	75	85	-	degree	
	Bottom (底部)			75	85	-		
	Left (左边)			75	85	-		
	Right (右边)			75	85	-		
White Chromaticity (白色色度)		X	CIE	-	0.275	-	-	-
		Y		-	0.285	-	-	-
NTSC (色彩饱和度)			-	55	60	-	%	-

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7. LCD Module Outline dimensions (模组外形图)



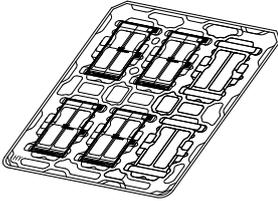
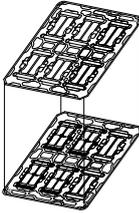
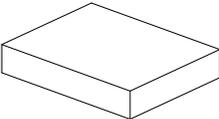
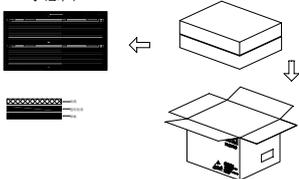
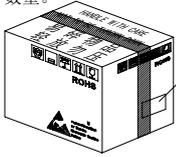
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8. Packaging Specification (包装规格)

- 1.1 Package quantity in one Box : 28PCS
- 1.2 Box Size : 380mm*330mm*210mm
- 1.3 1 BOX = 2 CARTON
- 1.4 1 CARTON = 7(Full tray) + 1 (dummy / top tray) =8 tray
- 1.5 1 TRAY =2PCS LCM

注：此为示意图

<p>(1) 模块平放入吸塑盘内， 每盘放6PCS产品</p> 	<p>(2) 吸塑盘交叉叠放</p> 	<p>(3) 十盘加一个空盘共10x6=60pcs 吸塑盘交叉叠放后用胶袋和胶 纸打包</p> <p style="text-align: right;">叠放次序 B C A C B C A</p> 
<p>(4) 真空包装 将打包好的产品装入包装袋并抽真空密封，</p> 	<p>(5) 产品装箱 先在纸箱底下放一个纸板, 让后放一小包产品进去, 在放一个纸板在上面, 最后在放一个纸板在上面, 二包叠加装箱</p> <p>示意图</p> 	<p>(6) 封箱 外箱标签中须体现供应 商名称、EQ料号及包装 数量。</p> <p style="text-align: right;">外箱标签贴于侧面</p>  <p>数量: 2x60=120 PCS/箱</p>