

INDUSTRIAL STRENGTH... Start Your Application From YOURITECH

Integration support

Obsolescence Management

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Software

Quality Management

Open Frame Monitors

LCD Controller

Research & Development

Firmware

EMC tests

on-site service

In-house Manufacturing

Cover glass

System solutions

OEM Solutions

Custom Display

PCAP

Mechanical design

Production Custom designs Installation



PRODUCT 产品名称	AMOLED : 液晶显示模块
MODEL NO. 模块型号	: ET6D0103
SUPPLIER 供应商	SHENZHEN YOURITECH TECHNOLOGY CO.,LTD : 深圳市优瑞泰克科技有限公司
DATE 日期	: 2024-10-09

SPECIFICATION

产品说明书

Revision: 1.0

版本: 1.0

ET6D0103

This module uses ROHS material
模块用环保材料

If there is no special request from the customer, YOURITECH Tech.Co., LTD. will not reserve the tooling of the product under the following conditions:

如有下列情况, 但客户又没有特别的要求, 优瑞泰克科技有限公司将不储存产品模具:

1. There is no response from the customer in two years after YOURITECH Tech.Co., LTD. submit the samples
从优瑞泰克提供样品后, 两年内客户如果没回应。
2. There is no order in two years after the latest mass production.
在最后一次批量后两年内没有订单。

And correlated data (including quality records) will be reserved for one year more after tooling is discarded.
相关的数据(包括质量报告)将会被保留一年或更久直到模具放弃。

YOURITECH Tech.Co.,Ltd.
优瑞泰克有限公司

CUSTOMER:
客户:

Quality Assurance Department
质量保证部门
Approved by:
核准
Technical Department:
技术部门

Approved by
核准

修改记录

[illegible]

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WRITTEN BY 制作	CHECKED BY 检查	APPROVED BY 核准
HXQ	HXQ	HXQ

1■ GENERAL INFORMATION
主要特征描述

Item 项目	Contents 内容	Unit 单位	Remark 备注
AMOLED Size液晶尺寸	6.01	inch	
Recommended Viewing Direction 模块推荐使用方向	ALL 0' Clock		
Module area (W×H×T) 模块外围尺寸 (宽×高×厚)	69.646*142.30*0.66	mm ³	
Active area (W×H) 有效区域 (宽×高)	68.256*136.51	mm ²	
Display Number of colors	16.7M	colors	8Bit
Resolution 点阵	1080 delte RGB*2160	/	FHD+
AMOLED Driver IC 驱动IC	CH13721CG1-15	/	
Interface Type 接口类型	MIPI-4Lane (60hz)	/	
Connector主板连接器	FH26-39S-0.3SHW	/	
Input voltage 输入电压	TBD	V	
Operating Temperature	TBD	℃	-
Storage Temperature	TBD	℃	-

proch:TBD
code:TBD

2■ EXTERNAL DIMENSIONS
2. AMOLED外形尺寸

3■ ABSOLUTE MAXIMUM RATINGS

极限参数

Parameter of absolute maximum ratings 参数	Symbol 符号	Min 最小值	Max 最大值	Unit 单位
Supply voltage for logic 逻辑电压	VBAT/VCI/IOVCC	TBD	TBD	V
Input voltage 输入电压	VIN	TBD	TBD	V
Operating temperature 操作温度	Top	TBD	TBD	℃
Storage temperature 储存温度	TST	TBD	TBD	℃
Humidity 湿度	RH	TBD	TBD	RH

4■ ELECTRICAL CHARACTERISTICS

模块电气特性

DC CHARACTERISTICS

直流特性

Parameter of DC characteristics 参数	Symbol 符号	Min 最小值	Typ 典型值	Max 最大值	Unit 单位
Supply voltage for logic 逻辑电压	VBAT	TBD	TBD	TBD	V
Supply voltage for logic 逻辑电压	VCC	TBD	TBD	TBD	V
I/O power supply 接口电压	IOVCC	TBD	TBD	TBD	V
Normal	功耗	TBD	TBD	TBD	W
HBM	功耗	TBD	TBD	TBD	W
Input voltage 'H' level 输入高电平	VIH	TBD	TBD	TBD	V
Input voltage 'L' level 输入低电平	VIL	TBD	TBD	TBD	V
Output voltage 'H' level 输出高电平	VOH	TBD	TBD	TBD	V
Output voltage 'L' level 输出低电平	VOL	TBD	TBD	TBD	V

5■ ELECTRO-OPTICAL CHARACTERISTICS

光电参数

TBD

■ INTERFACE DESCRIPTION

接口定义描述 (AMOLED)

Interface NO.	Symbol	Description	When not in use
1	GND	Ground	
2	GND	Ground	-
3	GND	Ground	
4	VBAT	3.8-4.5V in	
5	VBAT	3.8-4.5V in	-
6	VBAT	3.8-4.5V in	
7	VBAT	3.8-4.5V in	-
8	VBAT	3.8-4.5V in	
9	GND	Ground	-
10	OTP	NC	-
11	NC		-
12	GND	Ground	-
13	D3P	MIPI data Lane	
14	D3N	MIPI data Lane	
15	GND	Ground	-
16	D0P	MIPI data Lane	
17	D0N	MIPI data Lane	-
18	GND	Ground	-
19	CLKP	MIPI Clock Lane	
20	CLKN	MIPI Clock Lane	
21	GND	Ground	
22	D1P	MIPI data Lane	
23	D1N	MIPI data Lane	
24	GND	Ground	
25	D2P	MIPI data Lane	
26	D2N	MIPI data Lane	
27	GND	Ground	
28	RESX	Reset signal input terminal(1V8)	
29	VDDIO	IO Power supply(1V8)	
30	VCI	Power supply(3V3)	
31	TE	Tearing effect signal to frame memory writing	
32	GND	Ground	
33	TP-VDD	TP Power supply(3V3)	
34	TP-1V8	TP IO Power supply(1V8-3V3)	
35	TP-SDA	TP Serial DATA input signal(1V8-3V3)	
36	TP-SCL	TP Serial clock(1V8-3V3)	
37	TP-RESET	TP Reset signal input terminal(1V8-3V3)	
38	TP-INT	TP INT(1V8-3V3)	
39	GND	Ground	-

7 ■ RELIABILITY TEST CONDITIONS

可靠性试验条件

No. 序号	Test Item 试验项目	Test Condition 试验条件	Inspection after test 判断标准
1	High Temperature Storage 高温存放	TBD	Inspection after 2~4hours storage at room temperature, the sample shall be free from defects: 试验结束后,已测试的 AMOLED 样品必须在室内正常温湿度环境下放置2~4个小时以上才能进行功能和外观检查,样品不允许有以下缺陷: 1.Air bubble in the AMOLED; 模块中有气泡; 2.Sealleak; 封口松脱; 3.Non-display; 不显示; 4.missing segments; 漏笔 5.Glass crack; 玻璃破碎; 6.Current Idd is twice higher than initial value.电流 Idd 大于初时值的 2 倍 7, the surface shall be free from damage. 表面无损伤. 8.Linearity must be no more than 1.5% by the linearity tester. 线性度测试不超过 1.5% 9.The electrical characteristics requirements shall be satisfied.需要满足模块电气性能。
2	Low Temperature Storage 低温存放	TBD	
3	High Temperature Operating 高温操作	TBD	
4	Low Temperature Operating 低温操作	TBD	
5	Temperature Cycle 冷热冲击	TBD	
6	Dropping test 跌落试验	TBD	
7	ESD test 静电试验	TBD	

Remark: 注意:

1.The test samples should be applied to only one test item.

每个被测试的模块只能用于其中的一个测试项目。

2.Sample size for each test item is 5~10pcs.

每个测试项目的样品数量为 5~10 片。

3.For Damp Proof Test, Pure water(Resistance>10MΩ) should be used.

对于防潮试验, 试验箱的用水必须是电阻大于10M欧姆的纯水。

4.In case of malfunction defect caused by ESD damage, if it would be recovered to normal state after resetting, it would be judged as a good part.

如果由静电引起产品故障,当放置一段时间后能够恢复正常, 则不视为产品缺陷。

5.EL evaluation should be excepted from reliability test with humidity and temperature: Some defects such as black spot/blemish can happen by natural chemical reaction with humidity and Fluorescence EL has.

带EL片的可靠性测试在高温高湿条件下,荧光粉会发生自然化学反应而产生黑点或瑕疵,因此不在高温高湿条件测试范围内。

6.Failure Judgment Criterion: Basic Specification, Electrical Characteristic, Mechanical Characteristic, Optical Characteristic.

故障判断标准:基本规格,电气特性,机械特性,光电特性

8■ PACKING SPECIFICATION

包装规格书

Please consult our technical department for detail information.

详细信息请联系我们的技术部

9■ PRIOR CONSULT MATTER

提前商议事项

- 1 For YOURITECH standard products, we keep the right to change material, process ... for improving the product property without prior notice to our customer.
对于优瑞泰克的标准产品，我们保留在不通知客户的情况下,为提高产品性能而改变原材料及加工方法等的权利。
- 2 For OEM products, if any changes are needed which may affect the product property, we will consult with our customer in advance.
对于 OEM 产品，如果需要做任何会影响到产品性能的改变，我们会提前和客户商议。
- 3 If you have special requirement about reliability condition, please let us know before you start the test on our samples.
如对可靠性条件有特殊要求，请在模块测试前通知我们。