

OLED Full-Lamination Module Technical Specification

Ver. V1.0

1. Manufacturer Product Naming Rules

Product Name: E4104AC73.A

Code	Definition	Description
E	Supplier Name Code	EDO
410	Display Size	4.1inch
4	PPI Code	$300 < X \leq 350$
A	Key Display Panel Technology	LTPS, Real RGB, Thinning
C	Touch Technology	On cell
7	Delivery Type	Full Module
3	Customer Code	Huangshan NK150
A	Product Version	4.1 BBK NK150 Project (RM69A10, GT9895)

2. Technical Requirements

Note: See the original manufacturer's technical specification for detailed technical requirements. This specification lists only selected key items of concern. If this specification conflicts with the original manufacturer's technical specification, or if this specification contains requirements not covered by the original manufacturer's technical specification, this specification shall prevail.

2.1 Feature Overview

No.	Item	Specification	Unit	Remarks
1	OLED Size (Diagonal Size)	4.08	inch	
2	Panel Type	RGB AMOLED	—	
3	Resolution	Display: $568 \times (\text{RGB}) \times 1232$ Actual Use: $562 \times (\text{RGB}) \times 1232$	dot	Three pixels masked on each side
4	Pixel Arrangement	Real RGB arrangement	—	
5	Number of Display Colors	16.7M	colors	
6	Viewing Direction	Full Viewing Angle	—	
7	Interface Type	MIPI		
8	Driver IC	RM69A10	—	
9	Touch IC	GT9895	—	
10	Touch Screen Type	on-cell	—	
11	Polarizer	5115AS3RD09-03	—	
12	Cover Glass	0.7T, Black window	—	
13	Operating Life	$T95 \geq 350$	Hours	$L > 95\% @ 25^\circ\text{C}$

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2.2 Mechanical Specifications

No.	Item	Specification (TYP)	Unit	Remarks
1	Module Outline Dimensions	100.84(W)×48.28(H)×1.63(T)	mm	
2	Glass Outline	100.84×48.28×0.7	mm	
3	Number of Dots	562(W)×(RGB)×1232(H)	Dots	Physical Resolution: 568x1232 ; Actual Use: 562x1232
4	Pixel Size	76.68(W)×76.68(H)	um	
5	Pixel Pitch	76.68(W)×76.68(H)	um	
6	AA (Active Area)	43.09 X 94.47	mm	Actual AA Dimensions
7	AA-to-CG Margin (U/D/L/R)	3.05/2.36/2.36/3.33	mm	
8	VA-to-CG Margin (U/D/L/R)	2.9/2.21/2.21/3.18	mm	
9	LCM-to-CG Margin (U/D/L/R)	2.05/1.31/1.31/1.58	mm	
10	Display Glass Thickness (LTPS/Encapsulation Glass)	0.2/ 0.3	mm	
11	Weight	Full-Lamination Module: 16.99g Cover Glass: 8.11g	g	
12	Warp	0.20 mm max	mm	CG Front Side Only

2.3.1 Electrical Characteristics (Parameters in the table may be adjusted and identified according to the specific panel condition, but all parameters must be provided.)

No.	Item	Symbol	Min.	Typical	Max.	Unit
1	Display Digital Power supply	VDDIO	1.65	1.8	1.95	V
	Display Digital Power Supply Ripple Requirement	—	—	—	100	mV
2	Display Analog Power supply	VCI	3.1	3.3	3.5	V
	Display Analog Power Supply Ripple Requirement	—	—	—	50	mV
3	Display Analog Power	Vbat	3.5	3.7	3.9	V

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	supply					
	Display Analog Power Supply Ripple Requirement	–	–	–	50	m V
4	Touch Analog Power supply	TP_AVDD	3.1	3.3	3.5	V
	Touch Analog Power Supply Ripple Requirement	–	–	–	100	m V
5	Display Digital Power supply (280nits)	VDDIO	–	18	–	mA
6	Display Analog Power supply (280nits)	VCI	–	12	–	mA
7	Display Analog Power supply (280nits)	Vbat	–	115	–	mA
8	Frame Frequency	F _{frm}	58	60	62	Hz
9	Power Dissipation	White	–	500	–	mW
		Black	–	70	–	

2.3.2 TP Electrical Characteristics

Item	Specification	Remarks
Operating Voltage	3.3V	–
Operating Current	Active mode Avg:11.9mA Sleep mode Avg:65uA	–
Report Rate	120hz	–
Multi-Touch	10	According to Actual Project Requirements
Gesture Function	Double-Tap Wake-Up, Shortcut Gestures	Other Requirements According to Actual Project Requirements

2.4 Process Requirements

No.	Item	Parameters	Remarks
1	FPC Process Requirements		Including AMOLED and TP FPC
2	Key Process Parameters		Including AMOLED, TP, and Full Lamination
3	Production Environment	Workshop Environment for Key Processes Production Environment: Class 100 cleanroom processes: POL Attach and BLU Assembly; Class 1,000 cleanroom processes: COG, FOG, FOB, front adhesive, back adhesive, and UV adhesive coating; Class 10,000 cleanroom processes: 2nd Cutting, CT, APP, PT, AST, and Tape Attachment	

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		CG & Full-Lamination Production Environment: Class 100 cleanroom processes: Full Lamination Class 1,000 cleanroom processes: Peeling A, Peeling B, auxiliary film attachment, ASF Coater, FOG, 2nd Printer (UV), and AOI Class 10,000 cleanroom processes: thermal curing and VT (overall environment is Class 10,000)	
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2.5 Environmental Parameters

No.	Item	Material
1	Operating Temperature and Humidity Range	-20° C to +70° C; when humidity >90% RH, the maximum temperature shall be <60° C
2	Storage Temperature and Humidity Range	-30° C to +80° C; when humidity >90% RH, the maximum temperature shall be <60° C

2.6 Optical Characteristics

Test Environment: 25° C±3° C, 65±20% RH, darkroom.

No .	Item		Symbol	Conditions	Parameters			Unit	Remar ks
					Min.	Typ.	Max.		
1	Brightness		L	Full white	252	280	308	cd/m ²	Note1.
2	Brightness Uniformity		UL	Full white	85	90	—	%	Note4
3	Contrast Ratio		CR	Normal Θ=Φ=0°	100000	—	—	—	Note3.
4	Response Time		Ton+Toff	Normal Θ=Φ=0°	—		2	ms	Note2.
5	Color Coordinates [Color Chromaticity (CIE1931)]	White	Wx	Normal Θ=Φ=0°	0.29	0.30	0.31	—	Note1.
			Wy		0.29	0.31	0.33		
		Red Red	Rx		0.657	0.687	0.717		
			Ry		0.285	0.315	0.345		
		Green	Gx		0.197	0.247	0.297		
			Gy		0.666	0.716	0.766		
		Blue Blue	Bx		0.106	0.136	0.166		
			By		0.02	0.05	0.08		
6	Color Saturation (Color Gamut)		NTSC	CIE1931	95	105	—	%	
7	Viewing Angle			Up/Down/Right /Left CR ratio@80°	80° Cr≥ 1000			°	Note3.
8	Gamma			Full brightness normal, 7<Gray<239; Gamma controlled at 2.2±0.2	2.0	2.2	2.4	—	

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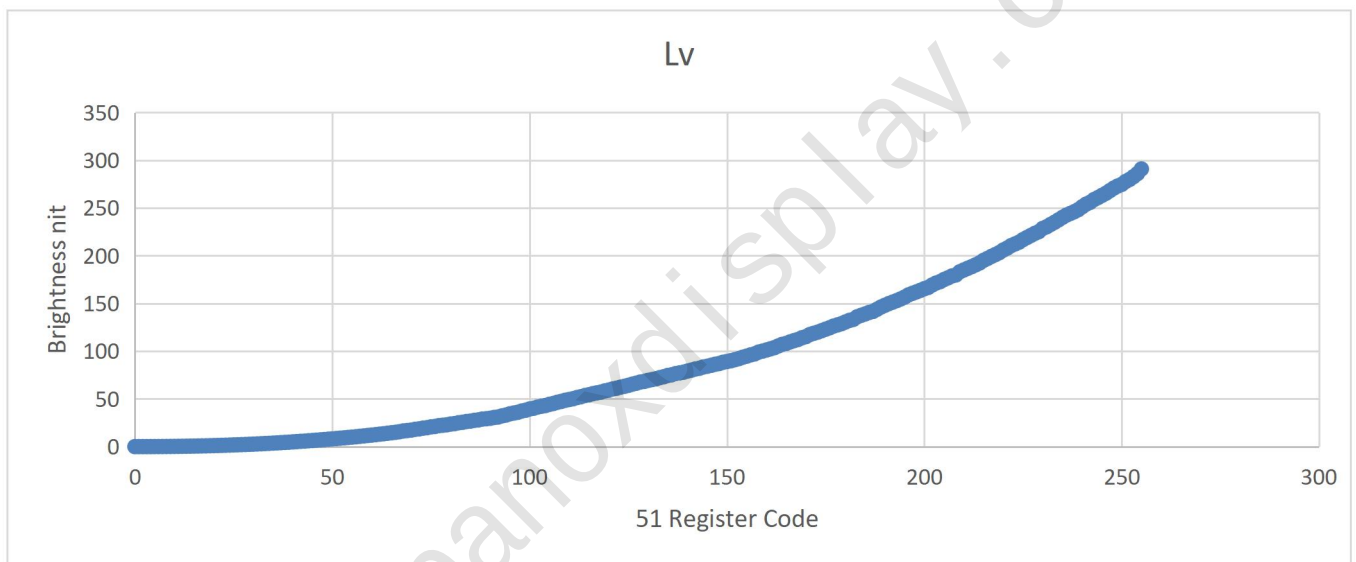
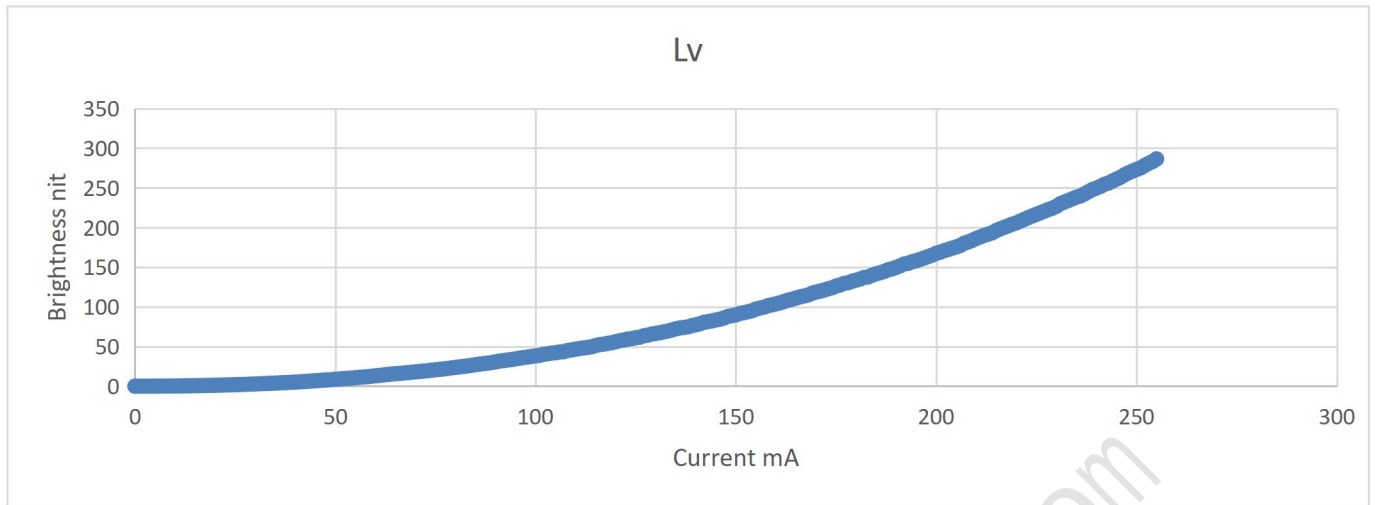
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9	Color Temperature	–	7000	7500	8000	K	
10	Color Shift	@30 degree		4	5	JNCD	Note5.
11	Image Retention	Room Temperature and 50° C	Turn on the full-unit functional interface for 3 min, then switch to a 128-gray-level image; the image shall disappear after 10 s at room temperature. Turn on for 30 min, then switch to a 128-gray-level image; the image shall disappear after 20 s at room temperature. Turn on for 2 h, then switch to a 128-gray-level image; the image shall disappear after 1 min at room temperature. (If disputed, make the determination using ND06 shielding.)				Note6.
12	Flicker	Normal $\Theta = \Phi = 0^\circ$	–	–	–30	dB	Note7.
13	Crosstalk	window: 4% white/black background: gray117	–	–	2	%	Note8.
14	OLED Life Test	L>95% @ 25°C	350				Note9.

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Optoelectronic Curve

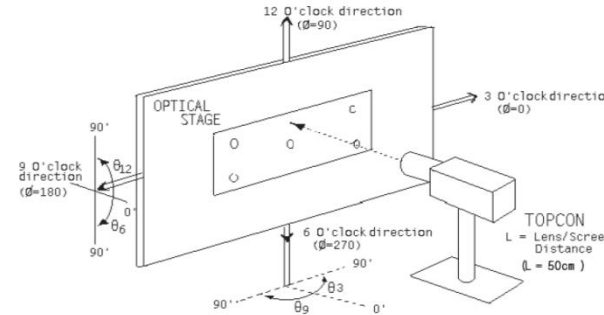
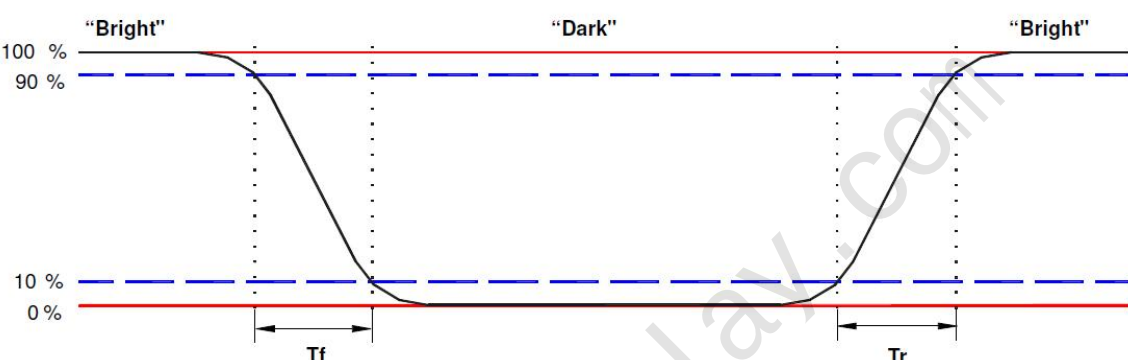
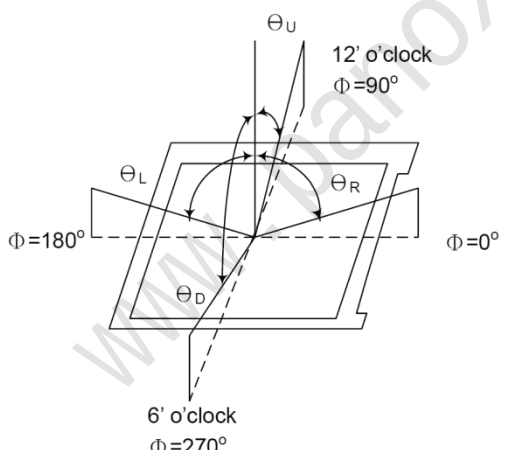


Remarks: (See the table below)

No.	Item	Content
1	Opti	1. Displays below 3.5": 5 points; 2. Displays from 3.5" to 10.1": 9 points;

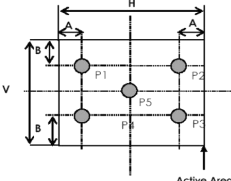
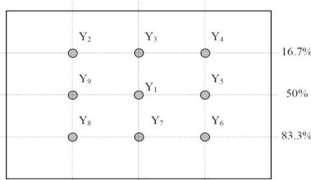
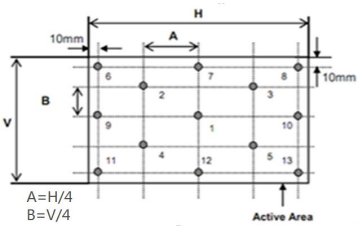
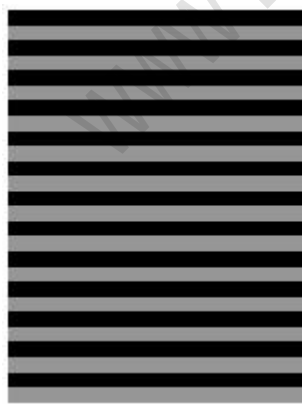
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ca l Ch ar ac te ri st ic s Te st	3. Displays above 10.1": 13 points	
2 Re sp on se Ti me Te st		
3 Vi ew in g An gl e an d Co nt ra st Un if or mi ty De sc ri pt io n		 Contrast Ratio Uniformity = $CR_{\min} / CR_{\max}$

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4	Brightness Uniformity Test	 A: 1/4H B: 1/4V H.V: Active Area	Luminance uniformity= $\frac{(\text{Min Luminance of n points})}{(\text{Max Luminance of n points})} \times 100\%$ 	 A=H/4 B=V/4
5	Color Shift Test	For JNCD measure: Fix on one pattern like white pattern, On the condition $\theta=0^\circ$, we can get the color coordinate (u_1', v_1') and on 30° we can get another color coordinate (u_2', v_2') $\Delta = \text{Square Root} ((u_2' - u_1')^2 + (v_2' - v_1')^2)$ JNCD stands for "Just Noticeable Color Difference" For the (u', v') color space JNCD=0.0040. 2JNCD means $\Delta u''v'' < 0.0080$ For color shift we need to measure white/red/green/blue pattern		
6	Image Retention Test	 Figure 1: Checkerboard image (6×8)  Figure 2: 128-gray-level image	Turn on the full-unit functional interface for 3 min, then switch to a 128-gray-level image; the image shall disappear after 10 s at room temperature. Turn on for 30 min, then switch to a 128-gray-level image; the image shall disappear after 20 s at room temperature. Turn on for 2 h, then switch to a 128-gray-level image; the image shall disappear after 1 min at room temperature. (If disputed, make the determination using ND06 shielding.)	
7	Flicker	Flicker Suggested Instruments: Konica Minolta CA-310 or Klein Instruments K-8  Odd row : L0 Black Even row : L186 gray level Flicker Test Pattern The flicker level is defined by Fast Fourier Transformation (FTT) as follows:		

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$$Flicker = 20 \log_{10} \left(2 \frac{f_{FFTC}(n)}{f_{FFTC}(0)} \right) + FS(Hz) \quad (dB)$$

Where

$f_{FFTC}(n)$ is the n-th FFT coefficient.

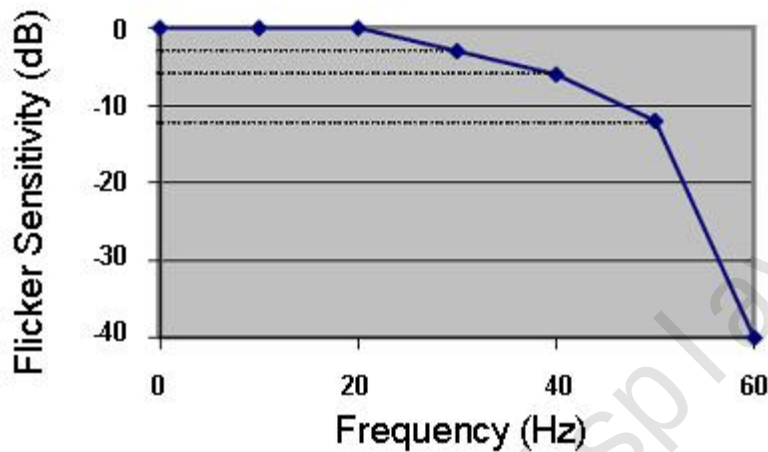
$f_{FFTC}(0)$ is the 0-th FFT coefficient which is DC component.

$FS(Hz)$ is the flicker sensitivity as a function of frequency.

The peak flicker level shall be reported based on the calculation using above formula in

which $FS(Hz)$ is determined by the flicker weighing factor shown below.

Flicker Weighing Factor



Crosstalk

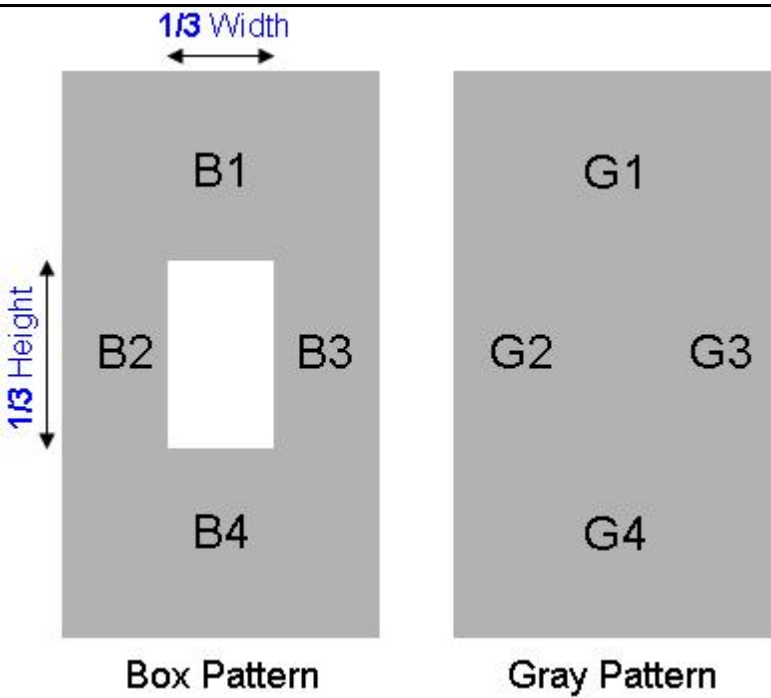
Crosstalk shall be calculated by the luminance of B1~B4 and G1~G4 in the patterns shown below.

Box Pattern: L128 gray level background with a L255 White window in the central area.

Gray Pattern: L128 gray level background only.

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		 Box Pattern Gray Pattern <i>Crosstalk</i> $\equiv \text{Maximum} : \left\{ \frac{ B1 - G1 }{G1}, \frac{ B2 - G2 }{G2}, \frac{ B3 - G3 }{G3}, \frac{ B4 - G4 }{G4} \right\} \times 100\%$
9	Life Test	Life Time 1、OLED life time is defined by the Minimum Duration Time that the luminance is decayed to a specific ratio (ex. 95%) of initial state. Test Pattern under duration period: L255 White
10	ESD	Contact Discharge ± 6 kV Air Discharge ± 6 kV (OLB area ± 4 kV) See the attachment for details:

2.7 Interface Definition

Pin No.	Symbol	I/O	Function Description	When not use
1	TP_INT	I/O	TP Interrupt Pin	—
2	GND	P	Ground	—
3	TP_SCL	I/O	TP I2C SDA	—
4	TP_SDA	I/O	TP I2C SDA	—
5	TP_RST	I/O	TP Reset Pin	—
6	TP_VDDIO	I/O	TP_IO_Supply	—
7	TP_VDD	I/O	TP_Power supply	—
8	NC(SWDIO)	-	-	—
9	GND	P	Ground	—
10	TE	I/O	Tearing effect	—

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11	RESET	I/O	DDIC RESET	—
12	VDDIO	P	DDIC IO POWER	—
13	VDD	P	DDIC ANALOG POWER	—
14	VDD	P	DDIC ANALOG POWER	—
15	GND	P	Ground	—
16	GND	P	Ground	—
17	GND	P	Ground	—
18	D1_P	I/O	MIPI_DATA1	—
19	D1_N	I/O	MIPI_DATA1	—
20	GND	P	Ground	—
21	CLK_P	I/O	MIPI_CLK	—
22	CLK_N	I/O	MIPI_CLK	—
23	GND	P	Ground	—
24	D0_P	I/O	MIPI_DATA0	—
25	D0_N	I/O	MIPI_DATA0	—
26	GND	P	Ground	—
27	NC(VPP)	-	OTP Power PIN	—
28	GND	P	Ground	—
29	GND	P	Ground	—
30	GND	P	Ground	—
1A	GND	P	Ground	—
30A	GND	P	Ground	—
15A	VBAT	P	PMIC POWER INPUT	—
16A	VBAT	P	PMIC POWER INPUT	—

2.8 Cover Glass Requirements

No.	Item	requirement
1	Material	GG3
2	Critical Dimension CPK	CG Length Cpk = Min 1.0 (30 pcs)
3	Surface Hardness	7H (750 g, Mitsubishi pencil)
4	Traceability Mark	CG Marking
5	Transmittance	>91%
5	CS	GG3 (= >750MPa)
6	DOL	GG3 (= >40um)
7	CT	GG3 (<60Mpa)

3. Reliability Test Requirements

Unless otherwise specified, the environmental requirements are: temperature 15–35° C; humidity 45–75% RH; atmospheric pressure 86–106 kPa.

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No.	Test Item	Test Conditions	Acceptance Criteria
1	High-Temperature Operation	Test Temperature: $70\pm 2^{\circ}\text{C}$; Test Humidity: OFF; Test Time: 240 h; Recovery Condition: Reach 30°C at a rate of $\leq 1^{\circ}\text{C/min}$, then recover at room temperature and humidity for 2-24 h.	There shall be no functional or appearance abnormalities.
2	Low-Temperature Operation	Test Temperature: $-20\pm 2^{\circ}\text{C}$; Test Humidity: OFF; Test Time: 240 h; Recovery Condition: Reach 30°C at a rate of $\leq 1^{\circ}\text{C/min}$, then recover at room temperature and humidity for 2-24 h.	There shall be no functional or appearance abnormalities.

Note: The 2-24 h recovery time means that, depending on the test condition, if recovery is OK after 2 h, there is no need to wait 24 h. If recovery is NG after 2 h, the recovery time may be extended up to 24 h before testing.

4. Material Requirements and Bill of Materials

Party A has the right to inspect the materials used at Party B's production site without prior notice. If any discrepancy with the items listed below is found, penalties will be imposed in accordance with the jointly signed Business Cooperation Memorandum. In serious cases, the supplier qualification may be cancelled and related compensation may be claimed.

No.	Part Name	Material (Specific Specification or Model)	Material Manufacturer Information	Technical Specification Data
1	OLED Panel	1E4104AC73ADZ	EDO	
2	Driver IC	RM69A10	Raydium	
3	Polarizer	5115AS3RD09-03	Sanli Spectrum	
4	ACF(COF to panel)	CP776SA-14AJ	Sony	
5	ACF (COF to FPC)	MF372	Hitachi	
6	TP ACF	AC-3418CDH	Hitachi	
7	FPC	FP30134XD	Xingxin Tongtai	
8	Surface Adhesive Wire Adhesive	COF Front/Back Adhesive: 4217WR TP Front Adhesive: HC-907S	Weiltone Hansong	
9	CG	Corning GG3	Lens	

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			Technology	
10	OCA	3M2807	Zhanxin	
11	Cushioning Material	SDT 5215	Renhong	
12	Cushioning Material	CY28+Tesa68532	Renhong	
13	Double-Sided Adhesive	Tesa68532	Renhong	
14	Protective Film	QY-5001-HG-K	Renhong	
15	Peel-Off Tape	QY-50100-25	Renhong	
16	Module Back Adhesive (Rear Tape)	TS1010TE+ SGF-025+ KMB-15-E	Renhong	
17	Capacitor	0. 1uF/0201/6. 3V	TAIYO/ Murata	
18	Capacitor	2. 2uF/0201/6. 3V	TAIYO/ Murata	
19	Capacitor	2. 2uF/0201/10V	TAIYO/ Murata	
20	Capacitor	22nF/0201/6. 3V	TAIYO/ Murata	
21	Capacitor	1. 0uF/0201/10V	TAIYO/ Murata	
22	Capacitor	1uF/0201/6. 3V	TAIYO/ Murata	
23	Capacitor	1uF/0201/16V	TAIYO/ Murata	
24	Capacitor	4. 7uF/0402/6. 3V	TAIYO/ Murata	
25	Capacitor	10uF/0402/6. 3V	TAIYO/ Murata	
26	Resistor	0 ohm/0201/5%	TA-I	
27	BTB Connector	BM28B0. 6-30DP/2-0. 35V (51)	HRS	
28	Inductor	1uH/MCFK1608T1ROM	TAIYO	
29	TP IC	GT9895	GOODiX	
30	Power IC	AAT1557	AAT	
31	FLASH IC	FM25W16CTDTG	Fudan Microelectr onics	
32	Diode	RS5X7BF	RS	
33	TVS Diode	RST7513CM	RS	
34	Yellow Insulating Adhesive Tape on FPC	KY1030(0.03UM)	Shengkaimei	

5. Safety, EMC, and Moisture Sensitivity Requirements

5.1 Safety Requirements

When integrated into the complete machine, the product shall comply with the relevant requirements of GB4943-2003, Safety of Information Technology Equipment.

5.2 Electromagnetic Compatibility Requirements

When integrated into the complete machine, the product shall comply with the relevant requirements of GB9254-2008, Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment.

5.3 ESD Level

Item	Indicator Requirements and Level (complete-machine requirement; the individual unit shall cooperate to achieve it)	Acceptance Criteria
ESD Level (Complete Machine)	1. Contact Discharge: Test voltage: +8 kV, -8 kV; number of discharges: 10 times each; discharge interval: ≥ 1 s. 2. Air Discharge: Test voltage: +12 kV, -12 kV; number of discharges: 10 times each; discharge interval: ≥ 1 s.	No software or hardware failures permitted

6. Structural Dimensions and Packaging Requirements

6.1 Outline and Dimension Requirements

Insert the attachment here. Provide the outline structural dimension drawing and the outline drawing, including the outline, structural dimensions, body thickness, lead spacing, lead dimensions, pad details, tolerances, and other detailed requirements.



E4104AC73. A_Modul
e_V05_240117. dwg

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6.2 Drive Circuit Schematic (including the circuit diagram and FPC routing diagram)


E4104AC73.A_FP01_
V03_1026 .dsn
E4104AC73A-FPC3-R
M69A10-04-2023092

7. Appearance Requirements

The corresponding appearance standards shall be determined by Party B and the Quality Department of Guangdong Xiaotiancai Technology Co., Ltd. and followed.

8. Marking Requirements

8.1 Body Marking

The marking shall include the manufacturer, production date, lot number, and other parameter information. It shall be firm, clear, and easy to view, and shall remain clearly visible after any specified test.

QR Code Encrypted Code: 2VH D5H 3CJ 0 A13B043019192

- Digits 1-3: Supplier code, representing B889
- Digits 4-6: Customer material code, representing 1201868
- Digits 7-9: Year, month, and day
- Digit 10: Label identifier - 0 represents normal material
- Digits 11-23: Supplier Panel ID

Marking Location:



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8.2 Unique Identification

Where feasible, the supplier shall mark an identifiable unique identification on the material for traceability.

FPC Marking: FP30134XD

2349 2-01

- EDO Material Part No.: FP30134XD
- Production Date (Year/Week): 2349
- PCS Serial No.: 2-01
- Weekday: (the number of dots represents the weekday)



Marking Location:

CG Silk-Screen Marking: 142LCLS2348

- EDO Material Part No.: 142LC
- Supplier Code: LS (Lens Technology)
- Production Date (Year/Week): 2348

Marking Location:



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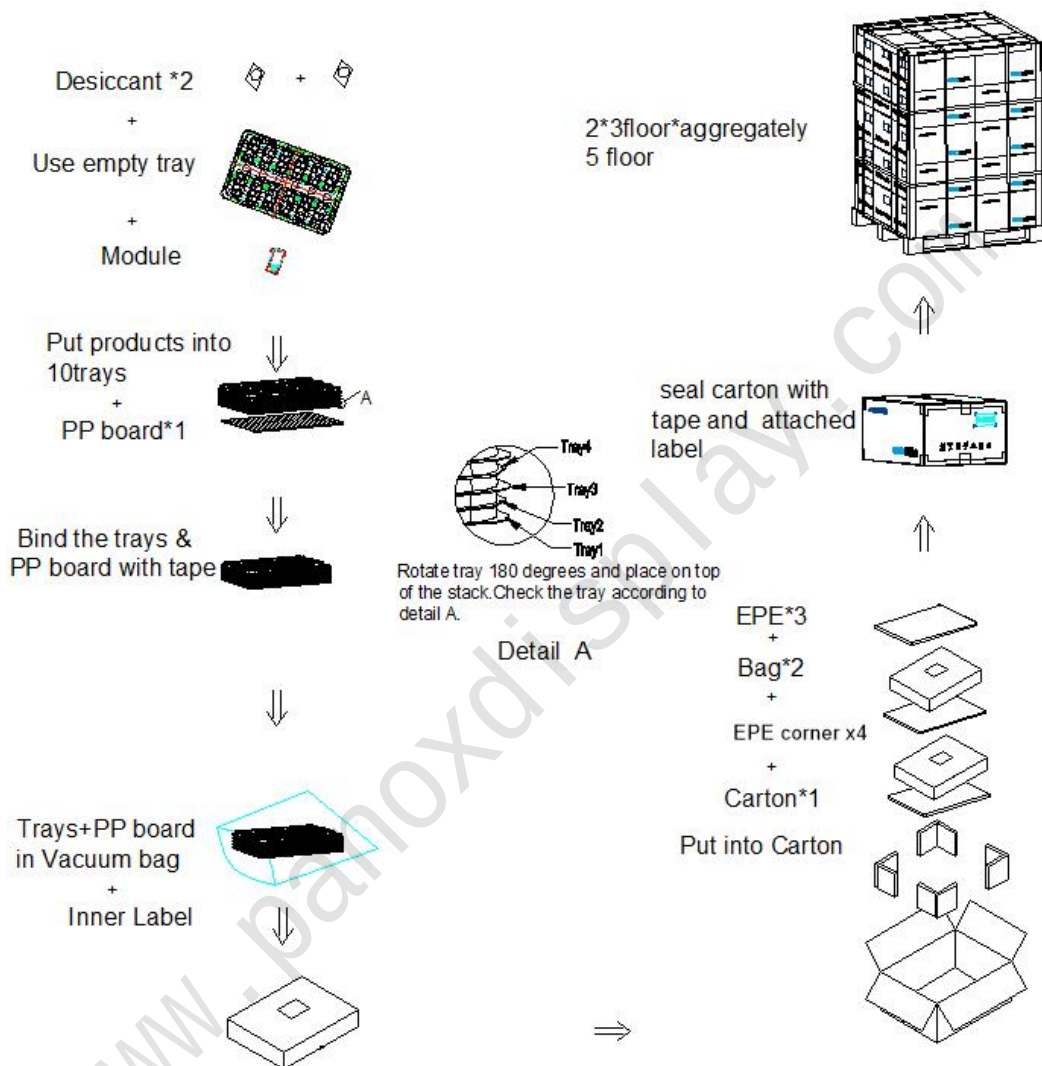
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9. Packaging, Transportation, and Storage

9.1 Packaging

(1) Packaging Method:

☒ Tray-Packaged
 ☐ Bulk
 ☒ Box-Packaged
 ☐ Roll-Packaged
 ☐ Tube-Packaged
 ☒ Vacuum Packaging + Desiccant
 ☐ Other (Specify)



(The packaging drawing must be attached here.)

(2) Inner Packaging (Material, Marking, Package Quantity and Specifications, etc.)

NO	Item	Material	Dimensions	Quantity	Module Quantity	Remarks
1	Inner Box	Paper	52.00*100.00*0.075mm	2		

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	Label					
2	Blister Tray	PET	455.00*290.00*14.00mm	22	The bottom 10 layers, 12 PCS/blister tray, The top blister tray is empty	
4	EPE Cushion Pad	EPE	457.00*292.00*20.00mm	3	/	
5	Dustproof Bag	PE	660.00*440.00*0.28mm	2	/	
6	PP Board	PP	457.00*292.00*5.00	2		
7	EPE Corner Protector	EPE	120.00*245.00*20.00	4		
8	Desiccant	-	55.00*75.00	4		
9	BBK Label	Paper	75.00*80.00	2		

(3) Outer Packaging (Material, Marking, Package Quantity and Specifications, etc.)

NO	Item	Material	Dimensions	Quantity	Module Quantity	Remarks
1	Outer Carton	Paper	516.00*338.00*248.00	1	240 PCS OLED/carton	
2	Outer Carton Label	Paper,	52.00*100.00*0.10	1	/	
3	BBK Label	Paper	75.00*80.00	1		

(4) Other

Affix a "ROHS" label to the outer carton for environmentally friendly products.

9.2 Transportation

Packaged products may be transported by any means of transport. Avoid collision, severe vibration, exposure to rain or snow, water immersion, and similar conditions during transport. During transshipment, the products shall not be stored in an open-air warehouse. After transportation, the products shall have no damage or performance degradation.

9.3 Storage

(1) Products shall be stored in a clean, dry, ventilated environment free of corrosive gases and direct sunlight. The storage warehouse temperature shall be -10°C ~ 40°C , with relative humidity no greater than 65%.

(2) From the device manufacturer's packaging completion date until shipment to Guangdong Xiaotiancai Technology Co., Ltd., the intervening storage time shall not exceed six months, starting

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from the individual-unit production date. After six months, Party A and Party B shall re-evaluate the material; if it is deemed usable, the shelf life shall be extended and an extended-shelf-life label shall be applied again.

(3) The normal shelf life of the device is one year. After entering the company, the storage period generally shall not exceed the maximum shelf life, based on one year after the supplier's production date or the extended-shelf-life date. Materials beyond the shelf life shall be re-evaluated.

10. Precautions for Use

10.1 Soldering Requirements

10.1.1 Manual Soldering:

Soldering Temperature and Time: N/A

10.2 Other Processing Requirements

- ①Handle with care; do not press the display FPC bending area or single-layer area;
- ②Observe ESD protection; the display shall be handled only with an ESD wrist strap or ESD gloves;
- ③Observe cleanliness protection; the display shall be handled only while wearing gloves or finger cots.

11. Quality and Reliability Indicators

12. Control Requirements for Toxic and Hazardous Substances

Material/Part Name	Control Requirements	Test Report
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