

SPECIFICATION FOR LCM+CTP+HDMI Module

MODULE No:	KD101WXFLD021-02-C045C-SP007A -HDMI
CUSTOMER:	

STARTEK	INITIAL	DATE
PREPARED BY	Distributed by:	
CHECKED BY	TE-XIM-	
APPROVED BY	www.texim-europe.com	

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Part. No	KD101WXFLD021-02-C045C-SP007A-HDMI		REV	V1.0	Page 1 of 24
常备库存		长 期 供 货	支持小量	品 种 齐 全	
	Stock For Sale	Long Time supply	NO MOQ		In Full Range



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Revision History

Date	Rev. No.	Page	Summary
2023.08.15	V1.0	ALL	FIRST ISSUE
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1. Basic Specifications

* Description

This is a plug and play device, this is a color active matrix TFT (Thin Film Transistor) LCD (liquid crystal display) that uses amorphous silicon TFT as a switching device. This module is composed of a transmissive type TFT-LCD Panel, driver circuit, capacitance touch panel, back-light unit, HDMI adapter board. The resolution of a 10.1 " TFT-LCD contains 1280x800 pixels, and can display up to 16.7M colors.

* Operating Instructions

This product supports the following operating systems: Windows 7/8/10, Android, Linux, Raspberry Pi.

- 1.Connect the DC-044 DC power.
- 2. Connect the HDMI cable to Windows 7/8/10 or Android or Linux or Raspberry Pi.
- 3. Connect the micro USB for touch panel, if this module supports it.

1.1 TFT Features

1 eatures					
General Information	Specification	Unit	Note		
Items	Main Panel	Onit	Note		
Display area(AA)	216.96(H)*135.6(V) (10.1 inch)	mm			
Driver element	TFT active matrix	-			
Display colors	16.7M	colors			
Number of pixels	1280(RGB)*800	dots	DE		
Pixel arrangement	RGB vertical stripe	5-0	1		
Pixel <mark>pi</mark> tch	0. <mark>1692(H)*0.1692(V)</mark>	mm			
Viewin <mark>g</mark> angle	ALL	o'clock			
Display mode	Transmissive /Normally Black	-			
Module bonding technology	Use OCA bonding between LCM and CTP	-			
Operating temperature	-20~+70	$^{\circ}\!\mathbb{C}$			
Storage temperature	-30~+80	$^{\circ}\!\mathbb{C}$			

1.2 Module Features

General Information Items	Specification	Unit	Note
Display Interface	HDMI(Type A)	-	
Touch Interface	Micro USB	-	
Touch Type	Capacitive touch panel	-	
Touch Mode	Multiple point	-	
Power supply	DC-12V(DC-044)	-	

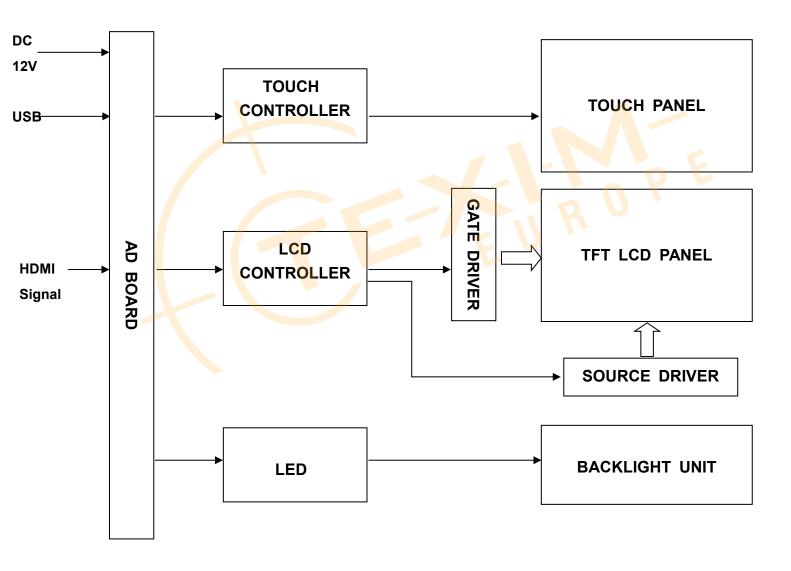
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1.3 Mechanical Information

	Item	Min.	Тур.	Max.	Unit	Note
	Horizontal(H)	-	229.06	-	mm	
Module	Vertical(V)	-	148.7	-	mm	
size	Depth(D)	-	-	22.84	mm	
	Weight	-	400	-	g	

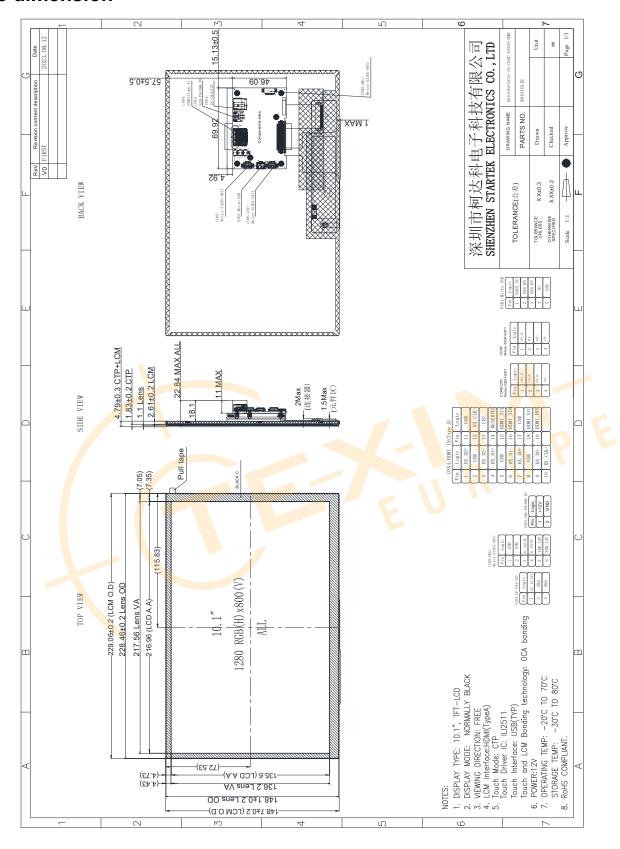
2. Block Diagram



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3. Outline dimension



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4. Pin Assignment

4.1 Power Input

CON1(DC-044 Socket)

NO.	SYMBOL	DISCRIPTION	I/O
1	DC_IN	Power supply (DC 12V).	Р
2	GND	Ground	Р
3	GND	Ground	Р

Extension CON3(JST:S2B-PH-SM4-TB)

NO.	SYMBOL	DISCRIPTION	I/O
1	+12V	Power supply (DC 12V).	Р
2	GND	Ground	Р

4.2 Touch Input

USB1(Micro USB)

NO.	SYMB <mark>O</mark> L	DISCRIPTION	I/O
1	VBUS_ <mark>5</mark> V	Supply voltage(5V).	Р
2	USB_DN	USB- signal.	I/O
3	USB_DP	USB+ signal.	I/O
4	NC	No connection.	
5	GND	Ground.	Р

Extension CON6(Molex:53261-0471)

NO.	SYMBOL	DISCRIPTION	I/O
1	VBUS_5V	Supply voltage(5V).	Р
2	USB_DN	USB- signal.	I/O
3	USB_DP	USB+ signal.	I/O
4	GND	Ground.	Р

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4.3 HDMI Input

The type of HDMI connector is a type A.

NO.	SYMBOL	DISCRIPTION	I/O
1	RX_D2+	HDMI Receiver channel 2 positive analog input.	1/0
2	GND	Ground.	Р
3	RX_D2-	HDMI Receiver channel 2 negative analog input.	I/O
4	RX_D1+	HDMI Receiver channel 1 positive analog input.	1/0
5	GND	Ground.	Р
6	RX_D1-	HDMI Receiver channel 1 negative analog inpsut.	1/0
7	RX_D0+	HDMI Receiver channel 0 positive analog input.	1/0
8	GND	Ground.	Р
9	RX_D0-	HDMI Receiver channel 0 negative analog input.	I/O
10	RX_CLK+	HDMI Receiver clock positive analog input.	I
11	GND	Ground.	Р
12	RX_CLK-	HDMI Receiver clock negative analog input.	I
13	CEC/DET_HD	No connection.	
14	NC	No connection.	
15	HDMI_SCL	HDMI Receiver DDC data channel.	I
16	HDMI_SDA	HDMI Receiver DDC clock channel.	I/O
17	GND	Ground.	Р
18	HDMI_5V	HDMI Supply voltage (5.0V).	Р
19	HPD	HDMI Receiver hot plug detect output	0

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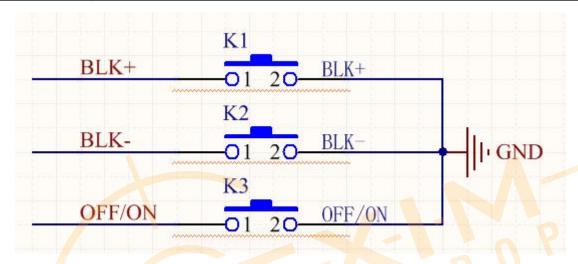


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4.4 Backlight Key Output

CON7(Molex: 53261-0471)

NO.	SYMBOL	DISCRIPTION	I/O
1	OFF/ON	Trun off or turn on backlight.	I
2	BLK-	Reduce brightness of backlight.	I
3	BLK+ Increase brightness of backlight.		1
3	DLKT	Note: The brightness is configured for maximum after power on.	l l
4	GND	Ground	Р



key circuit diagram

4.5 Extension Backlight Output

CON2(Molex: 53261-0671)

NO.	SYMBOL	DISCRIPTION	I/O
1	GND	Ground.	Р
2	GND	Ground.	Р
3	BL_ADJ	PWM signal output.	0
4	BL_EN	Enable signal.	0
5	12V	Power supply.	Р
6	12V	Power supply.	Р

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5. LCM Optical Characteristics

5.1 Optical specification

Item		Symbol	Condition	Min.	Тур.	Max.	Unit.	Note
Contrast Ra	atio	CR	Condition	800	1000		Offic.	(1)(2)
Contrast IX		CIX		800	1000			(1)(2)
Response time	Rising	$T_{R+}T_{F}$			25	35	msec	(4)(0)
	Falling							(1)(3)
Color Gam	nut	S(%)		40	44.4		%	
LCM Lumina	ince	LV		600	700		cd/m2	
		Wx	Θ=0		0.323			(1)(4)
	White	W _Y	Normal viewing		0.352			CA-
		R _X	angle	-0.04	0.587	.0.04		310
Color Filter	Red	R _Y			0.354			
Chromacicity	1	G _X			0.361	+0.04		
	Green	G _Y			0.557			
		B _X			0.155		F	
	Blue	Вү			0.120			
		ΘL		70	80			(1)(4)
Viewing angle	Hor.	ΘR		70	80	1		
		ΘU	CR>10	70	80	-		
	Ver.	ΘD		70	80			
Option View Di	rection			ALL				

^{*}The data comes from the LCD specification.

Measuring Condition

Measuring surrounding : dark room Ambient temperature : 25±2_°C

15min. warm-up time.

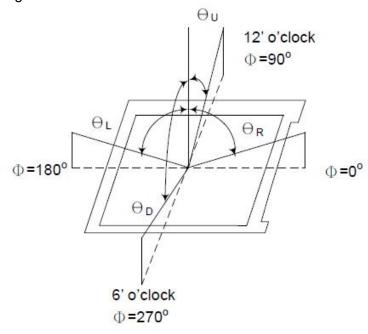
Measuring Equipment

FPM520 of Westar Display technologies, INC., which utilized SR-3 for Chromaticity and BM-5A for other optical characteristics.

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Note (1): Definition of Viewing Angle:

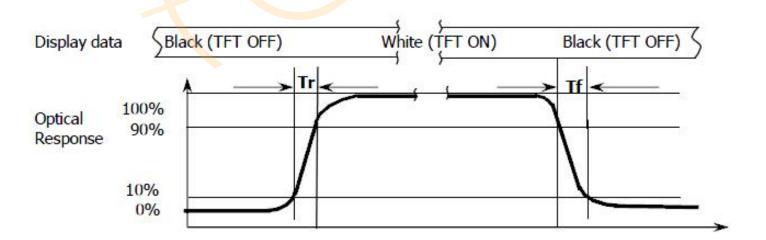


Note (2): Definition of Contrast Ratio(CR) :measured at the center point of panel

CR = Luminance with all pixels white

Luminance with all pixels black

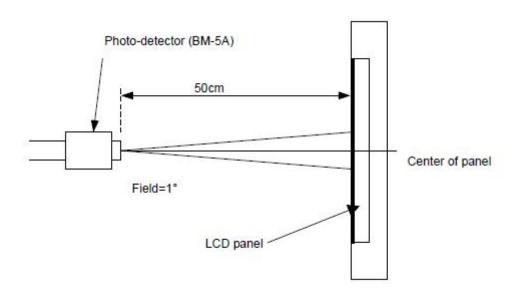
Note (3): Response Time



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Note (4): Definition of optical measurement setup





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6. Electrical Characteristics

6.1 Absolute Maximum Rating

Characteristics	Symbol	Min.	Max.	Unit	Note
Power Supply Voltage	DC_IN	-0.5	16	V	Note1
Operating temperature	T _{OP}	-20	+70	°C	
Storage temperature	T _{ST}	-30	+80	°C	

NOTE1: If the absolute maximum rating of even is one of the above parameters is exceeded even momentarily, the quality of the product may be degraded. Absolute maximum ratings, therefore, specify the values exceeding which the product may be physically damaged. Be sure to use the product within the range of the absolute maximum ratings.

6.2 DC Electrical Characteristics

Characteristics	Symbol	Min.	Тур.	Max.	Unit	Note
Power Supply Voltage	DC_IN	9	12	16	V	
Normal mode Current consumption	Idc_in		340		mA	DC_IN=12V

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7. LCD Module Out-Going Quality Level

7.1 VISUAL & FUNCTION INSPECTION STANDARD

7.1.1 Inspection conditions

Inspection performed under the following conditions is recommended.

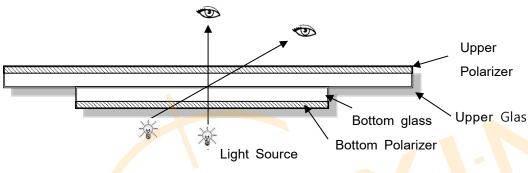
Temperature : 25±5℃

Humidity: 65%±10%RH

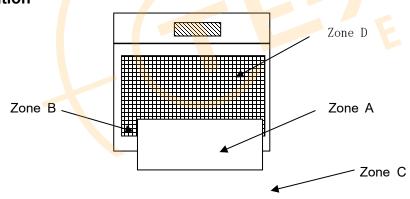
Viewing Angle: Normal viewing Angle.

Illumination: Single fluorescent lamp (300 to 700Lux)

Viewing distance:30-50cm



7.1.2 Definition



Zone A: Effective Viewing Area(Character or Digit can be seen)

Zone B: Viewing Area except Zone A

Zone C: Outside (Zone A+Zone B) which can not be seen after assembly by customer.)

Zone D: IC Bonding Area

Note:As a general rule ,visual defects in Zone C can be ignored when it doesn't effect product function or appearance after assembly by customer

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•		常备库存 Stock For Sale	长期供货 Long Time supply	支持小量 NO MOQ		品 种 齐 全 In Full Range	_



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7.1.3 Sampling Plan

According to GB/T 2828-2003 ; , normal inspection, Class $\, {\rm II} \,$ AQL:

Major defect	Minor defect
0.65	1.5

LCD: Liquid Crystal Display , LCM: Liquid Crystal Module, CTP: Capacitive Touch Panel

No	Items to be inspected	Criteria	Classification of defect s
1	Functional defects	 No display, Open or miss line Display abnormally, Short Backlight no lighting, abnormal lighting. etc 	Major
2	Missing	Missing components and etc	,
3	Outline dimension	Overall outline dimension beyond the drawing is not allowed, deformation and etc	
4	Color tone	Color unevenness, refer to limited sample	SE
5	Spot/Line defect	Light dot,Dim spot,(Note1) Polarizer Air Bubble, Polarizer accidented spot and etc	Minor
6	Soldering appearance	Good soldering , Peeling off is not allowed and etc	
7	LCD/Polarizer/CTP	Black/White spot/line, scratch, crack, etc.	

Note1: a) Light dot: Dots appear bright and unchanged in size in which LCD panel is displaying under black pattern.

b) Dim dot: Dots appear dark and unchanged in size in which LCD panel is displaying under pure red, green, blue picture.

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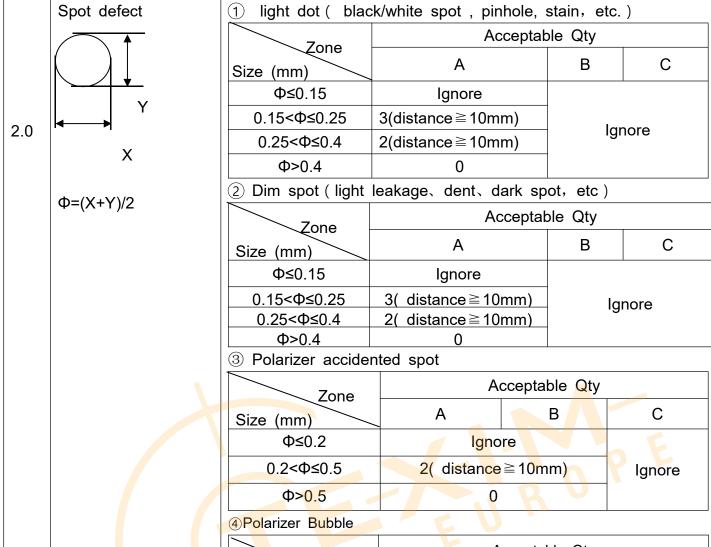
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7.1.4 Criteria (Visual)

Number	Items		Criteria(mm)		
1.0 LCD Crack/Broken NOTE: X: Length Y: Width Z: Height L: Length of IT	(1) The edge of LCD broken	X Y Z			
O, T: Height of LCD		≤3.0mm	<pre><inner border="" he="" line="" of="" pre="" seal<="" t=""></inner></pre>	≤T	
	(2)LCD corner broken (3) LCD crack	X ≤3.0r			

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Zone	_		
Size (mm)	Α	В	С
Ф≤0.2	Ignore		
0.2<Φ≤0.4	2(distance≧10mm)		Ignore
Ф>0.4	0		

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3.0	LCD Pixel defect	Pixel bad points		
		Item	Zone A	Acceptable Qt
			Random	N≤2
		Bright dot	2 dots adjacent	N≤0
			3 dots adjacent	N≤0
			Random	N≤3
		Dark dot	2 dots adjacent	N≤0
			3 dots adjacent	N≤0
		Distance	 Minimum Distance Between Bright dots. Minimum Distance Between dark dots Minimum Distance Between dark and bright dot. 	5mm
		Total bright	and dark dot	N≤4
		LCD pane B) Dark dot: LCD pane		size in which , blue picture.

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	Line defect (LCD		T			
	/Polarizer backlight bla	 Width(mm)	Length(m	Acce	ptable C	Oty
	ck/white line, scratch,	vvidiri(mm)	m)	Α	В	С
4.0	stain)	Ф≤0.05	Ignore	Ignore	:	
4.0		0.05 <w≤0.06< td=""><td>L≤5.0</td><td>N≤3</td><td></td><td>Ignore</td></w≤0.06<>	L≤5.0	N≤3		Ignore
	W: width, L: length	0.06 <w≤0.08< td=""><td>L≤4.0</td><td>N≤2</td><td></td><td></td></w≤0.08<>	L≤4.0	N≤2		
	N : Count	W>0.08		Define as spo	t defect	
	Electronic Componen	Not allow missing parts, solderless connection, cold solder joint, mi				
5.0	ts SMT.	and negative polarity opposite				
6.0	Display color& Brigh	Color: Measuring the color coordinates, The measurement standard according to the datasheet or samples.				
0.0	tness. 2. Brightness: Measuring the brightness of White screen, The urement standard according to the datasheet or Samples.					
7.0	LCD Mura/Waving/	Not visible through 5% e if necessary.	6 ND fi <mark>lte</mark> r i	n 50% gray or	· judge k	y lim <mark>it</mark> sampl
	Hot spot			NR	<u> </u>	

	СТР		1			
	Related	CTP Cover	Size Φ(mm)	Δ	cceptable Qty	/
		sensor acc	Size Φ(IIIII)	А	В	С
		idented	Ф≤0.15	lgn	ore	
8.0		black/white	0.15<Φ≤0.25	4(distance	e≧10mm)	Ignore
8.0		spot	0.25<Φ≤0.35	3 (distance	e≧10mm)	
			Ф>0.35)	

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	NAC III (Ignore	Accep	table Qty
CTP Cover	Width(mm)	(mm)	Α	ВС
	Ф≤0.05	Ignore	lg	nore
scratch	0.05 <w≤0.06< td=""><td>L≤4.0</td><td></td><td>N≤3</td></w≤0.06<>	L≤4.0		N≤3
os. atom	0.06 <w≤0.08< td=""><td>L≤3.0</td><td></td><td>N≤2</td></w≤0.08<>	L≤3.0		N≤2
	0.08 <w< td=""><td>Def</td><td>fine as spot</td><td>defect</td></w<>	Def	fine as spot	defect
			Acceptable	e Qty
	Zone		C	<u> </u>
CTP Cover	Size (mm) Φ≤0.2	•	lanana	
Pinhole/ L	0.2<Φ≤0.3		Ignore 4(distance≧10mm)	
ack of ink	0.3<Φ≤0.4		10mm)	
	Ф>0.4		0	
	L			
CTD Dan di	Size Φ(mm)		Accepta <mark>ble</mark>	Qty
CTP Bondi	0.20 7 ()	Α	В	
ng bubble/	Ф≤0.1		Ignore	
accidented	0.1<Φ≤0.2		di <mark>st</mark> ance≧10	
spot	0.2<Φ≤0.3	2(0	distance≧10	Omm)
	Ф>0.3		0	
Assembly	beyond the edge of	of backlight	≤0.2mm	
deflection				
	Х У	Z		
CTP cover		Z <cover t<="" td=""><td>x</td><td>Y</td></cover>	x	Y
broken	X≤0.5mm Y≤0.5mm	hickness	The second	
X : length		1		
Y : width	*			
Z : height	Circuitry broken is	s not allowe	d.	

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Criteria (functional items)

Number	Items	Criteria (mm)
Number		Not allowed
1	No display	Not allowed
2	Missing segment	Not allowed
3	Short	Not allowed
4	Backlight no lighting	Not allowed
5	CTP no function	
5	CTF 110 Turicuori	

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Stock For Sale

Long Time supply

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8. Reliability Test Result

ltem	Condition	Inspection after test		
High Temperature Operating	70°C,96HR			
Low Temperature Operating	-20°C, 96HR			
High Temperature Storage	80°C, 96HR			
Low Temperature Storage	-30°C, 96HR	Inspection after 2~4hours storage at room temperature, the sample shall be free from		
High Temperature & High				
Humidity Operating		defects:		
Thermal Shock (Non-operation)	-10°C,30 min ↔ 60°C,30 min,	1.Air bubble in the LCD;		
	Change time:5min 20CYC.	2.Non-display;		
	C=150pF, R=330,5points/panel	3.Missing segments/line;		
ESD test	Air:±8KV, 5times; Contact:±6KV, 5 times;	4.Glass crack;		
	(Environment: 15°C~35°C, 3 <mark>0</mark> %~60%).	5.Current IDD is twice higher		
	Frequency range:10~55Hz, Stroke:1.5mm	than initial value.		
Vibration (Non-operation)	Sweep:10Hz~55Hz~10Hz 2 hours for each direction of			
	X.Y.Z. (6 hours for total) (Package condition).			
Box Drop Test	1 Corner 3 Edges 6 faces,80 cm (MEDIUM BOX)			

Remark:

- 1. The test samples should be applied to only one test item.
- 2. Sample size for each test item is 3~10pcs.
- 3.For Damp Proof Test, Pure water(Resistance > $10M\Omega$) should be used.
- 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.
- 5. Failure Judgment Criterion: Basic Specification, Electrical Characteristic, Mechanical Characteristic, Optical Characteristic.
- 6. The color fading mura of polarizing filter should not care.

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 	品 种 齐 全 In Full Range	



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9. Cautions and Handling Precautions

9.1 Handling and Operating the Module

- (1) When the module is assembled, it should be attached to the system firmly.
- Do not warp or twist the module during assembly work.
- (2) Protect the module from physical shock or any force. In addition to damage, this may cause improper operation or damage to the module and back-light unit.
- (3) Note that polarizer is very fragile and could be easily damaged. Do not press or scratch the surface.
- (4) Do not allow drops of water or chemicals to remain on the display surface.
- If you have the droplets for a long time, staining and discoloration may occur.
- (5) If the surface of the polarizer is dirty, clean it using some absorbent cotton or soft cloth.
- (6) The desirable cleaners are water, IPA (Isopropyl Alcohol) or Hexane.
- Do not use ketene type materials (ex. Acetone), Ethyl alcohol, Toluene, Ethyl acid or Methyl chloride. It might permanent damage to the polarizer due to chemical reaction.
- (7) If the liquid crystal material leaks from the panel, it should be kept away from the eyes or mouth. In case of contact with hands, legs, or clothes, it must be washed away thoroughly with soap.
- (8) Protect the module from static; it may cause damage to the CMOS ICs.
- (9) Use finger-stalls with soft gloves in order to keep display clean during the incoming inspection and assembly process.
- (10) Do not disassemble the module.
- (11) Protection film for polarizer on the module shall be slowly peeled off just before use so that the electrostatic charge can be minimized.
- (12) Pins of I/F connector shall not be touched directly with bare hands.
- (13) Do not connect, disconnect the module in the "Power ON" condition.

9.2 Storage and Transportation.

- (1) Do not leave the panel in high temperature, and high humidity for a long time.
- It is highly recommended to store the module with temperature from 0 to 35 ℃ and relative humidity of less than 70%
- (2) Do not store the TFT-LCD module in direct sunlight.
- (3) The module shall be stored in a dark place. When storing the modules for a long time, be sure to adopt effective measures for protecting the modules from strong ultraviolet radiation, sunlight, or fluorescent light.
- (4) It is recommended that the modules should be stored under a condition where no condensation is allowed. Formation of dewdrops may cause an abnormal operation or a failure of the module.
- In particular, the greatest possible care should be taken to prevent any module from being operated where condensation has occurred inside.
- (5) This panel has its circuitry FPC on the bottom side and should be handled carefully in order not to be stressed.

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	常备库存	长期供货	支持小量	品 种 齐 全	
	Stock For Sale	Long Time supply	NO MOQ	In Full Range	



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10. Packing

----TBD----



Part. No	KD101WXFLD0	21-02-C045C-SP007A-HDMI	REV	V1.0	Page 24 of 24
	常备库存	长期供货	支持小量	品 种 齐 全	
	Stock For Sale	Long Time supply	NO MOQ		In Full Range

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