

Product Specification AU OPTRONICS CORPORATION

G101EAN02.1

() Preliminary Specifications

(v) Fi	inal Spe	cifications

Module	10.1 Inch Color TFT-LCD
Model Name	G101EAN02.1

Customer	Date
Checked & Approved by	

Approved by	Date					
Grace Hung	<u>2019/10/16</u>					
Prepared by						
<u>Jon Tseng</u>	<u>2019/10/16</u>					
General Display Business Unit/ AU Optronics corporation						



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Version and Date	Page	Old description		New Description					
0.0 2019/02/19	All	First draft specification		-					
0.1 2019/05/10	5	Power Consumption: TBD		Logic Power : 1W(Max)@White pattern 3.3V input					
	-	Mainh (March TDD		LED power max 2	2.45 W				
	5	Weight (Max.): TBD							
	5	Electrical Interface: LVDS		LVDS 1Port 8bit					
	6	White Luminance a [cd/m2]		White Luminance		Conditions.			
	6	Red x- TE			Red x∞	0.532¢ 0.582¢ 0.632¢			
		Red y	Do TBDo TBDo	Color / Chromaticity- Coordinates 1 (CIE 1931)-	Red ye Green xe Green ye Blue xe Blue ye White xe White ye	0.295			
	9	+ 3.3V Controller	D3840 poe Driver IC FT-LCD (0(3)*900 Physis	DODG James Tone 1000 1	Source Socratification Garmens Voltage	Source Grieve K.			
	10	Item- Symbol- Min- Max-	Unit		ymbol∘ Min∘	Max- Unit-			
		Logic/LCD drive Voltage VDDo -0.3。 14.0 LCD Input Signal Voltage Vsianut 0.3。 VDD+0	[Volt]»		VDD₽ -0.3₽ /signal₽ -0.3₽	3.6₽ [Volt]₽ 3.6₽			
	11	IDD-	Remark- te Pattern- 3.3V, at 60Hz)- te Pattern- 3.3V, at 60Hz)- te Pattern- 1.3V, at 60Hz)- 1.5V at 60Hz	Symbol- Parameter- Mir	3.3° 3.6° [Volt] 278.7° 303° [mA] 3.6° [Volt] 3.8° [mA] 3.6° [mA] 3.8° [mA] 3.8° [mA]	All White Pattern All White Pattern (VDD=3.3V, at 59.9Hz) Note 1-			
	14	Symbol	Unit- [Voit]- [mA]- [Watt]- [woit]- [Voit]- [Voit]- [Voit]- [Voit]-	Symbol- Parameter- VLED- Input Voltage hustor Input Current Puteo- Power Consump Inv LED Forward Cur LED Forward Cur High Level- Led	188. 189.	20 13.20 [Volt]0 750 204.190 [mA]0 850 2.450 [Volt]0 00			
	14	Operation Life	(Ta=25°C), Note 2-	Operation Life: 3	20,900> 30,900>	(Ta=25°C), Note 2.1			
	18	Frame Rate F 60	Hz-	Frame Rate F F F F F F F F F	¢ 59.99+				
	19	NA		Add 6.3.3 The Inp	<u> </u>				
	23	12mm	090\$062357752280£0£F00 c						
1.0 2019/06/03				Change to Final s	pec.				
1.1 2019/07/15	17		al Connector or compatible	Connector Name / Desig		Signal Connector			
		Managoturer* STIV	or compatible	Manufacturer		IPEX or compatible			



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.2 2019/10/16	1	Parameter			Value.			Init		Danamatan		١	Value-		Umis	-
.2 2019/10/10			M	in.	Тур.	Ma	х	Oille .		Parameter-		in	Тур.	Max.	Unit	-
		T1-	0	.5.	-,-	1). [I	ms].		T1-	0	.5	-0	10-	[ms]-	
		T2	_	30	40.	5). [i	ns].		T2-	5	0	60-	70-	[ms]	
		T3.	_	00.		-		ns].		T3.	20	00-	-,		[ms]	
		T4»	_	.5.	-0	10		ns].		T4.	0	.5-	-,-	10-	[ms]	0
		T5.	_	0		-		ms].		T5.	1	0.	-,-		[ms]	
	14	T6.	_	0.	-,,	-		ns].		T6.	1	0.	-0		[ms]	
	'-	T7-		0-	-,-	-		ms].		T7-	()		/	[ms]	e e
		T8-	1	10-	-,-	-		ms].		T8-	1	0	-,-		[ms]	
		T9.	_	~	~	20	0, [1	ms].		T9-		=_0	-,-	10-	[ms]	
		T10	1	10.	-,,	-	· [t	ns].		T10-	1	10-	-4		[ms]-	
		T11-		0.	16⊦	5). (I	ns].		T11-		0.	16-	50.	[ms]	-
		T12-			- ,	20	0. [1	ms].		T12-		.,		10-	[ms]	
		T13-	10	000-		-	- [1	ns].		T13-	10	00-			[ms]	-
		Signal		Symbol	Мі	n	Тур	Max	Unit	Signal		Symbol	Min	Тур	. Max.	Unit
		Clock Frequ	encv.	1/ T.Clock	68	a.	71.1	80-	MHz	Clock Freque	ancu:	1/ TClock	68.9-	71.1		MHz
		Oldox Frequ	Period	TV-	81		823	860		Olock Freque	Period	TV.	815	823	-	1
		Vertical-	Period		81	0/	0.000	860		Vertical-	Period		815		840/	-
		Section	Active-	TVD-			800-		JLine-	Section-	Active-	TVD-		800-		TLin
	19	Section	Blanking	TVB-	1	5.	23-	60-			Blanking	TVB-	15-	23	40-	
	'		Period-	TH	14	10.	1440	1550-			Period-	TH-	1410-	1440	1480	Ī
		Horizontal-					1280			Horizontal-	Active					TClor
		Section.	Active-	THD			1200	1	T.Clock	Section-	Acove	THD.	-	1280		- 1000
			Blanking	THB.	13	0-	160-	270-			Blanking	THB.	130-	160	200	
		Frame Ra	to-	E-		-,	59,99	/	Hz	Frame Ra	te-	F-		59.9	9	Hz.



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1. Operating Precautions

- 1) Since front polarizer is easily damaged, please be cautious and not to scratch it.
- 2) Be sure to turn off power supply when inserting or disconnecting from input connector.
- 3) Wipe off water drop immediately. Long contact with water may cause discoloration or spots.
- 4) When the panel surface is soiled, wipe it with absorbent cotton or soft cloth.
- 5) Since the panel is made of glass, it may be broken or cracked if dropped or bumped on hard surface.
- 6) To avoid ESD (Electro Static Discharde) damage, be sure to ground yourself before handling TFT-LCD Module.
- 7) Do not open nor modify the module assembly.
- 8) Do not press the reflector sheet at the back of the module to any direction.
- 9) In case if a module has to be put back into the packing container slot after it was taken out from the container, do not press the center of the LED light bar edge. Instead, press at the far ends of the LED light bar edge softly. Otherwise the TFT Module may be damaged.
- 10) At the insertion or removal of the Signal Interface Connector, be sure not to rotate nor tilt the Interface Connector of the TFT Module.
- 11) TFT-LCD Module is not allowed to be twisted & bent even force is added on module in a very short time. Please design your display product well to avoid external force applying to module by end-user directly.
- 12) Small amount of materials having no flammability grade is used in the LCD module. The LCD module should be supplied by power complied with requirements of Limited Power Source (IEC60950 or UL1950), or be applied exemption.
- 13) Severe temperature condition may result in different luminance, response time and lamp ignition voltage.
- 14) Continuous operating TFT-LCD display under low temperature environment may accelerate lamp exhaustion and reduce luminance dramatically.
- 15) The data on this specification sheet is applicable when LCD module is placed in landscape position.
- 16) Continuous displaying fixed pattern may induce image sticking. It's recommended to use screen saver or shuffle content periodically if fixed pattern is displayed on the screen.
- 17) In order not to damage the touch panel, please remove the protected film as slow as possible in an environment with a humidity range from 60% to 80%



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2. General Description

G101EAN02.1 is a Color Active Matrix Liquid Crystal Display composed of a TFT LCD panel and LED backlight system. The screen format is intended to support the 16:10 WXGA, 1200(H) x 800(V) screen and 16.7M colors (RGB 6-bits + Hi-FRC) with LED backlight driving circuit. All input signals are LVDS interface compatible.

2.1 Display Characteristics

The following items are characteristics summary under 25 °C condition:

Items	Unit	Specifications
Screen Diagonal	[inch]	10.1"
Active Area	[mm]	216.96(H) x 135.6(V)
Pixels H x V		1280 x 3(RGB) x 800
Pixel Pitch	[mm]	0.1695X 0.1695
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		AHVA, Normally Black
Nominal Input Voltage VDD	[Volt]	3.3 (Typical)
Power Consumption	[Watt]	Logic Power : 1W(Max)@White pattern 3.3V input LED power max 2.45 W
Weight (Max.)	[Grams]	195
Physical Size (Max.)	[mm]	228.22 x 148.3x 4.8(max)
Electrical Interface		LVDS 1Port 8bit
Surface Treatment		нс
Support Color		16.7M colors (RGB 6-bit + Hi-FRC)
Temperature Range Operating Storage (Non-Operating)	[°C]	-20 to +60 (Front and rear surface) -20 to +60
RoHS Compliance		RoHS Compliance



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2.2 Optical CharacteristicsThe optical characteristics are measured under stable conditions at 25 °C (Room Temperature):

Item	Unit	Conditions	Min.	Тур.	Max.	Note
White Luminance	[cd/m2]	ILED= 22mA (center)	320	400		
Uniformity	%	5 points	70%			
Contrast Ratio			600	800		
Response Time	[msec]	Rising + Falling		29	38	
	[degree]	Horizontal (Right)	80	89		
Viewing Angle	[degree]	CR = 10 (Left)	80	89		
Viewing Angie	[degree] [degree]	Vertical (Upper)	80	89		
		CR = 10 (Lower)	80	89		
		Red x	0.532	0.582	0.632	
		Red y	0.295	0.345	0.395	
		Green x	0.29	0.34	0.39	
Color / Chromaticity Coordinates		Green y	0.522	0.572	0.622	
(CIE 1931)		Blue x	0.112	0.162	0.212	
		Blue y	0.077	0.127	0.177	
		White x	0.263	0.313	0.363	
		White y	0.279	0.329	0.379	
Color Gamut	%			50		

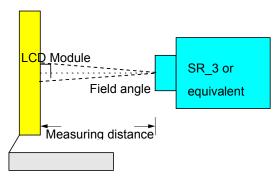
Note 1: Measurement method

Equipment Pattern Generator, Power Supply, Digital Voltmeter, Luminance meter (SR_3 or equivalent)

Field angle 2□with 50cm measuring distance Aperture

Test Point Follow Note 2 position

Environment < 1 lux

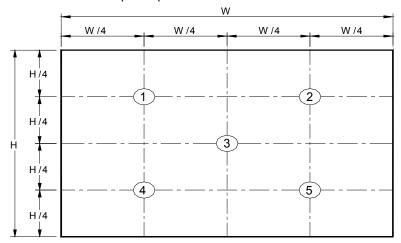


Module Driving Equipment



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Note 2: Definition of 5 points position



Note 3: The luminance uniformity of 5 points is defined by dividing the minimum luminance values by the maximum test point luminance

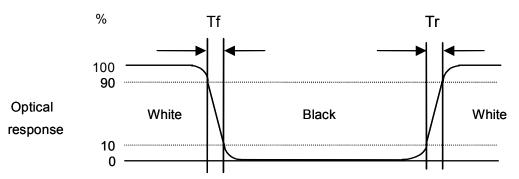
$$\delta_{W5} = \frac{\text{Minimum Brightness of five points}}{\text{Maximum Brightness of five points}}$$

Note 4: Definition of contrast ratio (CR):

Contrast ratio (CR)=
$$\frac{\text{Brightness on the "White" state}}{\text{Brightness on the "Black" state}}$$

Note 5: Definition of response time:

The output signals of photo detector are measured when the input signals are changed from "White" to "Black" (falling time) and from "Black" to "White" (rising time), respectively. The response time interval is between 10% and 90% of amplitudes. Please refer to the figure as below.





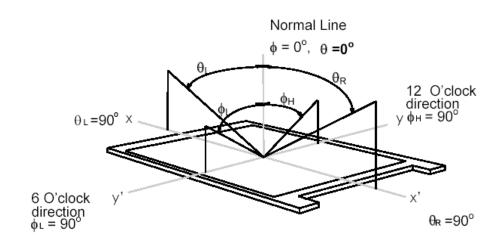
Note 6: Definition of viewing angle

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Viewing angle is the measurement of contrast ratio $\Box 10$, at the screen center, over a 180° horizontal and 180° vertical range (off-normal viewing angles). The 180° viewing angle range is broken down as below: 90° (θ) horizontal left and right, and 90° (Φ) vertical high (up) and low (down). The measurement direction is typically perpendicular to the display surface with the screen rotated to its center to develop the desired measurement viewing angle.

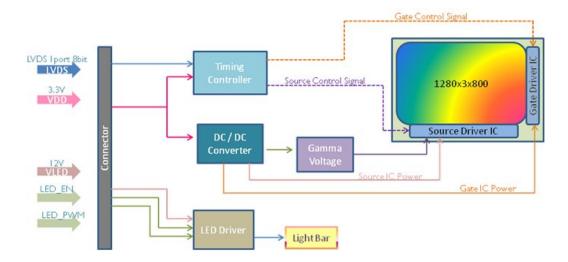




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3. Functional Block Diagram

The following diagram shows the functional block of the 10.1 inch color TFT/LCD module:





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4. Absolute Maximum Ratings

4.1 Absolute Ratings of TFT LCD Module

Item	Symbol	Min	Max	Unit
Logic/LCD drive Voltage	VDD	-0.3	3.6	[Volt]
LCD Input Signal Voltage	V_{SIGNAL}	-0.3	3.6	[Volt]

4.2 Absolute Ratings of Environment

Item	Symbol	Min	Max	Unit					
Operating Temperature	TOP	-20	+60	[°C]					
Humidity	HOP	5	90	[%RH]					
Storage Temperature	TST	-20	+60	[°C]					
Storage Humidity	HST	5	90	[%RH]					

Note 1: At Ta (25°C)

Note 2: Permanent damage to the device may occur if exceed maximum values

Note 3: Maximum wet-bulb temperature is less than 39 oC and no condensation

Note 4: Operating temperature means "Front and rear surface" of panel



5. Electrical Characteristics

5.1 TFT LCD Module

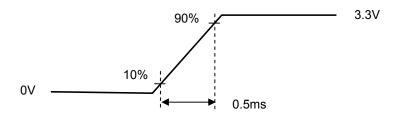
5.1.1 Power Specification

The power specification are measured under $25 ^\circ\!\!\!\! \mathrm{C}$ and frame frenquency under 60 Hz

Symbol	Parameter	Min	Тур	Max	Units	Remark
VDD	Logic/LCD Drive Voltage	3.0	3.3	3.6	[Volt]	
IDD	VDD Current	-	278.7	303	[mA]	All White Pattern (VDD=3.3V, at 59.9Hz)
Irush	LCD Inrush Current	-	-	1500	[mA]	Note 1
PDD	VDD Power	-	0.92	1	[Watt]	All White Pattern (VDD=3.3V, at 59.9Hz)
VDDrp	Allowable Logic/LCD Drive Ripple Voltage	-	-	100	[mV] p-p	All White Pattern (VDD=3.3V, at 59.9Hz)

Note 1: Maximum Measurement Condition: White Pattern at 3.3V driving voltage. (Pmax=V3.3 x Iwhite)

Note 2: Measure Condition



VDD rising time



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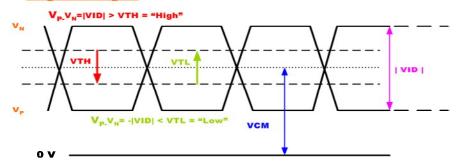
5.1.2 Signal Electrical CharacteristicsInput signals shall be low or Hi-Z state when VDD is off.

Symbol	Item		Тур.	Max.	Unit	Remark
VTH	Differential Input High Threshold	ı	ı	100	[mV]	VCM=1.2V
VTL	Differential Input Low Threshold	-100	-	-	[mV]	VCM=1.2V
VID	Input Differential Voltage	100		600	[mV]	
VICM	Differential Input Common Mode Voltage	1.0	1.2	1.5	[V]	VTH/VTL=±100mV

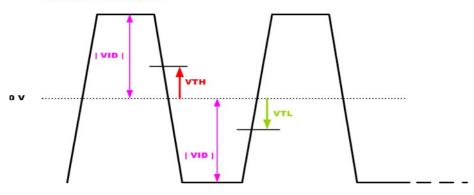
Note: LVDS Signal Waveform.

VP-VN = [VID]>VTH="High" VP-VN =-|VID|<VTL="Low"

Single-end Signal



Differential Signal

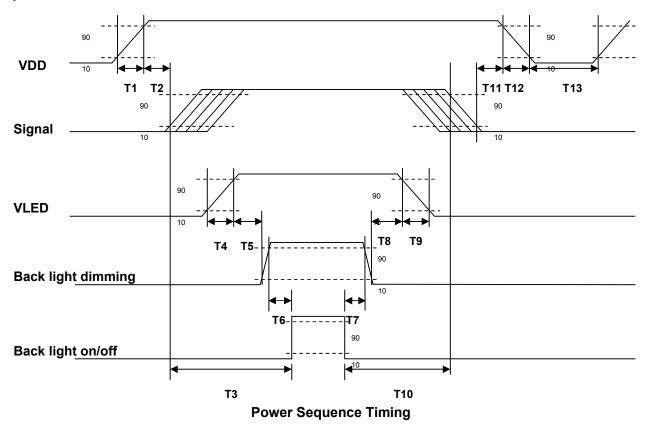




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5.1.3 Power ON/OFF Sequence

VDD power and backlight on/off sequence is as below. Interface signals are also shown in the chart. Signals from any system shall be Hi-Z state or low level when VDD is off.



Doromotor		l lm:4		
Parameter	Min.	Тур.	Max.	Unit
T1	0.5	-	10	[ms]
T2	50	60	70	[ms]
Т3	200	-	-	[ms]
T4	0.5	-	10	[ms]
T5	10	-	-	[ms]
T6	10	-	-	[ms]
T7	0	-	-	[ms]
Т8	10	-	-	[ms]
Т9	1	-	10	[ms]
T10	110	-	-	[ms]
T11	0	16	50	[ms]
T12	-	-	10	[ms]
T13	1000	-	-	[ms]

The above on/off sequence should be applied to avoid abnormal function in the display. Please make sure to turn off the power when you plug the cable into the input connector or pull the cable out of the connector.



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5.2.1 Parameter guideline for LED

Following characteristics are measured under a stable condition using an inverter at 25 (Room Temperature):

Symbol	Parameter	Min.	Тур.	Max.	Unit	Remark
VLED	Input Voltage	10.8	12	13.2	[Volt]	
I _{VLED}	Input Current		188.75	204.19	[mA]	100% Brightness (VLED = 12V)
P _{VLED}	Power Consumption		2.265	2.45	[Watt]	100% Brightness (VLED = 12V)
I _F	LED Forward Current		22		[mA]	Ta = 25°C
	LED Enable Input High Level	2.3	-	5.5	[Volt]	
VEN	LED Enable Input Low Level	-	-	0.3	[Volt]	
	PWM Logic Input High Level	2.3	-	5.5	[Volt]	
VPWM	PWM Logic Input Low Level	-	-	0.3	[Volt]	
PWM Input		200		2014	1.1-	
Frequency	FPWM	200	-	20K	Hz	
PWM Duty	Dut	40		400	0/	
Ratio	Duty	10		100	%	
0 " 1"		20,000	30,000		Hrs	(Ta=25°C), Note 2
Operation Life						IF=22mA

Note 1: Ta means ambient temperature of TFT-LCD module.

Note 2: V_{LED} , I_{VLED} , P_{VLED} are defined for LED backlight.(100% duty of PWM dimming)

Note 3: If G101EAN02.1 module is driven by high current or at high ambient temperature & humidity condition. The operating life will be reduced.

Note 4: Operating life means brightness goes down to 50% initial brightness. Minimum operating life time is estimated data.

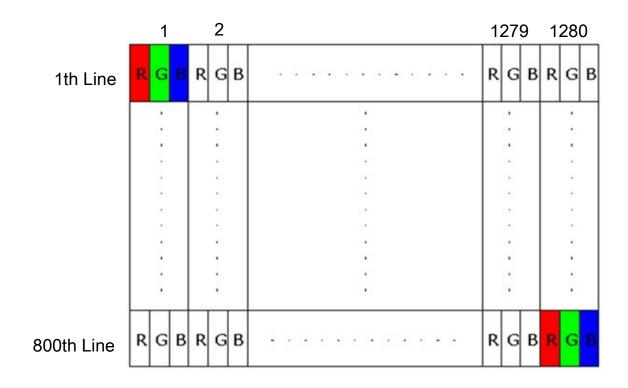


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6. Signal Characteristic

6.1 Pixel Format Image

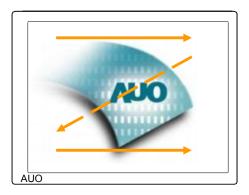
Following figure shows the relationship between input signal and LCD pixel format.





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The following figures show the image seen from the front view. The arrow indicates the direction of scan.



6.2.1 Pin Assignment

LVDS is a differential signal technology for LCD interface and high speed data transfer device.

PIN NO	Symbol	Function
1	GND	Ground
2	VDD	LCD Power Supply +3.3V
3	VDD	LCD Power Supply +3.3V
4	VDD	LCD Power Supply +3.3V
5	NC	AUO Self Test Pin
6	NC	AUO Self Test Pin
7	NC	AUO Self Test Pin
8	Rxin0-	-LVDS differential data input
9	Rxin0+	+LVDS differential data input
10	GND	Ground
11	Rxin1-	-LVDS differential data input
12	Rxin1+	+LVDS differential data input
13	GND	Ground
14	Rxin2-	-LVDS differential data input
15	Rxin2+	+LVDS differential data input
16	GND	Ground
17	ClkIN-	-LVDS differential clock input
18	ClkIN+	+LVDS differential clock input
19	GND	Ground
20	Rxin3-	-LVDS differential data input





21	Rxin3+	+LVDS differential data input
22	GND	Ground
23	NC	No connect
24	NC	No connect
25	GND	Ground
26	NC	No connect
27	NC	No connect
28	GND	Ground
29	NC	No connect
30	NC	No connect
31	BL_GND	Ground for backlight
32	BL_GND	Ground for backlight
33	BL_GND	Ground for backlight
34	NC	No connect
35	LED_PWM	PWM Dimming
36	LED_EN	LED ON/OFF
37	NC	No connect
38	VLED	LED Power Supply +12V
39	VLED	LED Power Supply +12V
40	VLED	LED Power Supply +12V

6.2.2 LVDS Connector

Connector Name / Designation	Signal Connector
Manufacturer	IPEX or compatible
Connector Model Number	IPEX 20765-040E-11A or compatible
Adaptable Plug	IPEX 20453-040T-01 or compatible



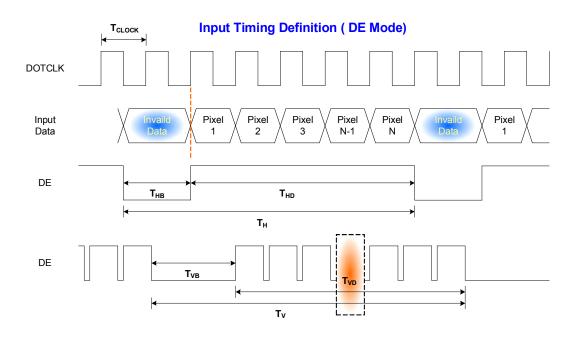
6.3 Interface Timing

6.3.1 Timing Characteristics

Signal		Symbol	Min.	Тур.	Max.	Unit	
Clock Frequ	Clock Frequency		68.9	71.1	74.5	MHz	
	Period	TV	815	823	840		
Vertical	Active	TVD		800	,	TLine	
Section	Blanking	TVB	15	23	40		
	Period	TH	1410	1440	1480		
Horizontal	Active	THD		1280		TClock	
Section	Blanking	THB	130	160	200		
Frame Rate		F		59.99		Hz	

Note : DE mode.

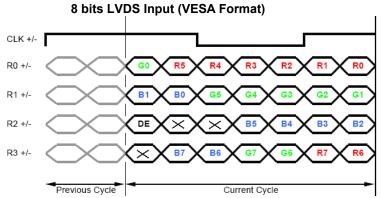
6.3.2 Input Timing Diagram





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6.3.3 The Input Data Format



Signal Name	Description	
R7	Red Data 7 (MSB)	Red-pixel Data
R6	Red Data 6	
R5	Red Data 5	For 8Bits LVDS input
R4	Red Data 4	MSB: R7 ; LSB: R0
R3	Red Data 3	
R2	Red Data 2	
R1	Red Data 1	
R0	Red Data 0 (LSB)	
G7	Green Data 7 (MSB)	Green-pixel Data
G6	Green Data 6	
G5	Green Data 5	For 8Bits LVDS input
G4	Green Data 4	MSB: R7 ; LSB: R0
G3	Green Data 3	
G2	Green Data 2	
G1	Green Data 1	
G0	Green Data 0 (LSB)	
B7	Blue Data 7 (MSB)	Blue-pixel Data
B6	Blue Data 6	
B5	Blue Data 5	For 8Bits LVDS input
B4	Blue Data 4	MSB: R7 ; LSB: R0
B3	Blue Data 3	
B2	Blue Data 2	
B1	Blue Data 1	
B0	Blue Data 0 (LSB)	
RxCLKIN	Data Clock	The signal is used to strobe the pixel data and DE signals.
		All pixel data shall be valid at the falling edge when the DE
		signal is high.
DE	Display Timing	This signal is strobed at the falling edge of
		RxCLKIN. When the signal is high, the pixel data shall be
		valid to be displayed.

Note: Output signals from any system shall be low or High-impedance state when VDD is off.

7. Reliability Test Criteria

Items	Required Condition	Note
Temperature Humidity Bias	40 °C /90%,300Hr	
High Temperature Operation	60 °C, 300Hr (center point of panel surface)	
Low Temperature Operation	-20 °C, 300Hr	
Hot Storage	60 °C, 300Hr	
Cold Storage	-20 °C, 300Hr	
Thermal Shock Test	-20 °C /30 min , 60 °C /30 min , 100cycles	
On/off test	On/10 sec, Off/10 sec, 30,000 cycles	
ESD	Contact : ± 8KV/ operation, Class B Air : ± 15KV / operation, Class B	Note 1
Shock test	50G,20ms,Half-sine wave,(±X, ±Y, ±Z), non-operation	
Vibration test	1.5G, (10~200Hz, random), 30 mins / axis (X, Y, Z),non-operation	

Note1: According to EN61000-4-2, ESD class B: Some performance degradation allowed. No data lost . Self-recoverable. No hardware failures.

Note2:

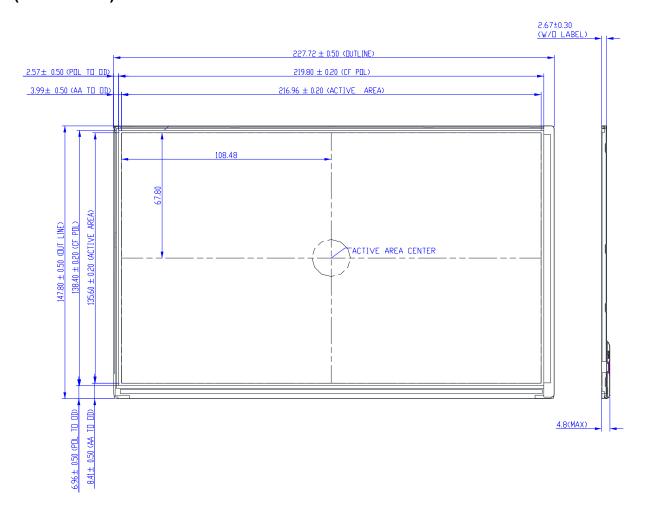
- Water condensation is not allowed for each test items.
- Each test is done by new TFT-LCD module. Don't use the same TFT-LCD module repeatedly for reliability test
- The reliability test is performed only to examine the TFT-LCD module capability.
- To inspect TFT-LCD module after reliability test, please store it at room temperature and room humidity for 24 hours at least in advance.



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- 8. Mechanical Characteristics
- **8.1 Outline Dimension (Front View)**

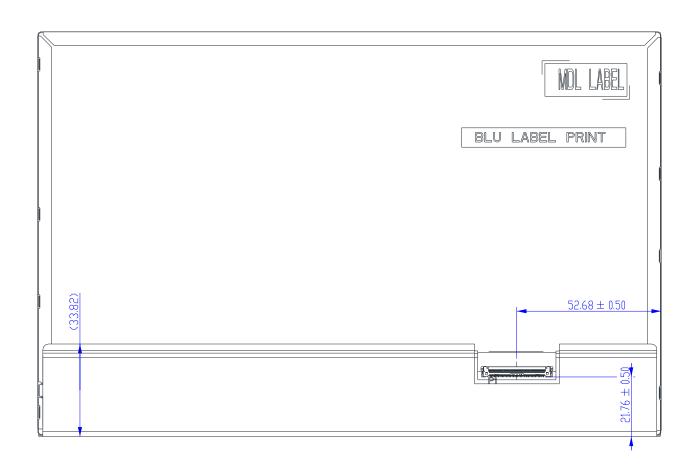




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8.2 Outline Dimension (Rear View)



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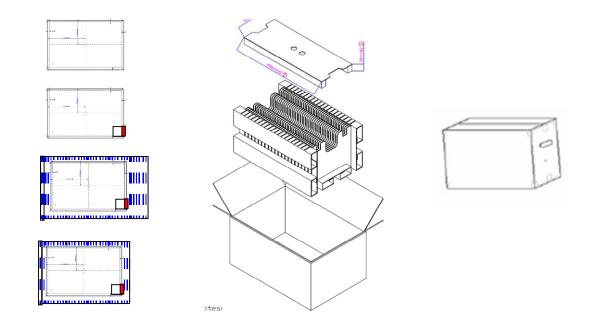
9. Label and Packaging

9.1 Shipping Label (on the rear side of TFT-LCD display)



30mm

9.2 Carton/Pallet Package



Max capacity: 40 TFT-LCD module per carton

Outside dimension of carton: 484*328*257mm

Pallet size: 1150 mm * 980 mm * 132mm

入库堆栈层数:5层

Box stacked

Module by air: (2*3)*5 layers, one pallet put 30 boxes, total 1200pcs module Module by sea: (2*3)*5 layers + (2*3)*2 layers, two pallet put 42 boxes, total 1680pcs module Module by sea_HQ: (2*3)*5 layers+(2*3)*3 layers, two pallet put 48 boxes, total 1920pcs module



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10.1 Sharp Edge Requirements

There will be no sharp edges or comers on the display assembly that could cause injury.

10.2 Materials

10.2.1 Toxicity

There will be no carcinogenic materials used anywhere in the display module. If toxic materials are used, they will be reviewed and approved by the responsible AUO toxicologist.

10.2.2 Flammability

All components including electrical components that do not meet the flammability grade UL94-V1 in the module will complete the flammability rating exception approval process.

The printed circuit board will be made from material rated 94-V1 or better. The actual UL flammability rating will be printed on the printed circuit board.

10.3 Capacitors

If any polarized capacitors are used in the display assembly, provisions will be made to keep them from being inserted backwards.

10.4 National Test Lab Requirement

The display module will satisfy all requirements for compliance to:

UL 60950-1 second edition

U.S.A. Information Technology Equipment