



() Preliminary Specifications

(V) Final Specifications

Module	12.1 Inch Color TFT-LCD
Model Name	G121SN01 V403

Approved by Customer **Date Date** Grace Hung 2016/4/27 Checked & Prepared by Approved by Elaine Hsu 2016/4/27 Note: This Specification is subject to change General Display Business Division / without notice. AU Optronics corporation

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Vers	ion and Date	Page		Old description							New	Des	crip	tior	า			
0.0	2015/12/14	All		F	irst E	ditior	1											
		5	Typical Power Co	onsumption e	[Watt]-	TBD ₀					Typical Power C	Consumption-	[West]-	4.62 (T All blace	yp.)-i k pattern	al.		
			Symbol <i>₀</i>	Parameter	ip.	Min	⊮ T	Гур₽	Max∂	Units₽	Symbol ₀	Parameter	Fe	Min	₽ 1	Гур∂	Max₽	Units∂
		11	VDD₽	Logic/LCD Input Voltag		3.0	Θ ;	3.3₽	3.6₽	[Volt]	VDD₽	Logic/LCD Input Voltag		3.0	ρ ;	3.3₽	3.6₽	[Volt] _©
			I _{VDD} ∂	LCD Input Curi	rent∂	-4	Т	BD₽	- _P	[mA]₽	I _{VDD} ₽	LCD Input Cur	rent∂	-42		0.2₽	0.24	[A] <i>₀</i>
			P _{VDD}	LCD Power comsu	ımption.	٠.	Т	BD₽	-0	[Watt]₽	P _{VDD}	LCD Power comsu	umption	ص	(0.66₽	0.79₽	[Watt]∂
			lec	LED Forward Current	- P	450	1973	[mA]-	Ta	= 25°C-1	lec	LED Forward Current-	4	45-	140	[mA]-	Ta =	25°C+
			Ve	LED Forward Voltage	- 14	3.2-	- 100	[Volt]-	Ir = 45 m	A, Ta = 25°C-	Vec	LED Forward Voltage-	147	32	3.6-	[Volt]	Ir = 45 m/	, Ta = 25°C+
1.0	2016/04/27	27 13	P _{UED-1}	LED Power Consumption	50	3.02	(W)	[VVatt]-		2	P _{LED} -	LED Power Consumption-	-ri	3.02-	3.40-	[Watt]-	D- 45-1	Ta = 25°C+
			LED life time-	¥	50,000-	196	140	Hrse	l# = 45 m	A, Ta = 25°C+	LED life time-	4	50,000	- ori	- sal	Hrs	Ir = 45 m/	, 1a = 25°C/
			Note 2: VCC, Ivcc,	lote 1: Ta means ambient temperature of TFT-LCD module lote 2: VCC, Ivcc, Pvcc are defined for LED backlight (100% duty of PVM dimming) lote 3: Iv, Vv are defined for one channel LED. There are three LED channel in back light unit.								Note 1: Ta means ambient temperature of TFT-LCD module - Note 2: VCC, Incc, Proce are defined for LED backlight (100% duty of PVMM dimming)- Note 3: In, Vv are defined for one piece LED. There are three _LED channel in back light unit 3 strings, 7 LEDs for each string, total 21 LEDs						
		23	Add Pin	1 position														
		24	2. Max. We	Note: - 1. Max. Capacity: 20pcs LCD Modules / per carton 2. Max. Weight: 14.8 kg / per carton 3. The outside dimension of carton is 570(L) mm x 320(W) mm x 420(H) mm								pacity: 20pcs LCD M ight: 18.2 kg / per ca side dimension of ca	arton⊬			0(W) n	nm x 420	(H) mm√
										100								

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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 Discharge) 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 without flammability grade are used in the TFT-LCD module. The TFT-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
- 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.

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2. General Description

This specification applies to the Color Active Matrix Liquid Crystal Display G121SN01 V403 composed of a TFT-LCD display, a driver and power supply circuit, and a LED backlight system.

The screen format is intended to support SVGA ($800(H) \times 600(V)$) screen and 16.7M (8-bits) or 262k colors (6-bits).

LED driving board for backlight unit is included in G121SN01 V403. All input signals are LVDS interface and compatible with G121SN01 V4.

G121SN01 V403 designed with wide viewing angle; wide temperature and long life LED backlight is well suited for industial applications.

G121SN01 V403 is a RoHS product.

2.1 Display Characteristics

The following items are characteristics summary on the table under 25 condition:

Items	Unit	Specifications
Screen Diagonal	[inch]	12.1
Active Area	[mm]	246 (H) x 184.5 (V)
Pixels H x V		800 x 3(RGB) x 600
Pixel Pitch	[mm]	0.3075 x 0.3075
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		TN, Normally White
Nominal Input Voltage VDD	[Volt]	3.3 (typ.)
Typical Power Consumption	[Watt]	4.62 (Typ.) All black pattern
Weight	[Grams]	750 (max)
Physical Size	[mm]	279.0(H) x 209.0(V) x 9.0(D) (Typ.)
Electrical Interface		1 channel LVDS
Surface Treatment		Anti-glare, Hardness 3H
Support Color		16.7M / 262K colors
Temperature Range Operating Storage (Non-Operating)	[°C]	-30 to +85 -30 to +85
RoHS Compliance		RoHS Compliance





G121SN01 V403

2.2 Optical Characteristics

The optical characteristics are measured under stable conditions at 25 (Room Temperature):

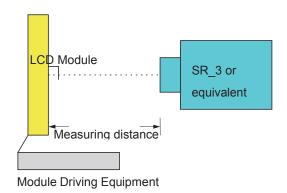
Item	Unit	Conditions	Min.	Тур.	Max.	Remark
White Luminance	[cd/m2]	I _F = 45mA/1 LED Line (center point)	400	500	-	Note 1
Uniformity	%	5 Points	75	-	-	Note 2, 3
Contrast Ratio			500	700	- /	Note 4
	[msec]	Rising	1	25	35	
Response Time	[msec]	Falling	-	10	20	Note 5
	[msec]	Raising + Falling	-	35	55	
	[degree]	Horizontal (Right)	70	80	1 -	
Viewing Angle	[degree]	CR = 10 (Left)	70	80	_	Note C
viewing / tilgle	[degree]	Vertical (Upper)	55	65	-	Note 6
	[degree]	CR = 10 (Lower)	65	75	-	
		Red x	0.556	0.606	0.656	
		Red y	0.300	0.350	0.405	
		Green x	0.254	0.304	0.354	
Color / Chromaticity Coordinates		Green y	0.527	0.577	0.627	
(CIE 1931)		Blue x	0.099	0.149	0.199	
	_	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	%			55	_	

Note 1: Measurement method

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

Aperture 1 with 50cm viewing distance

Test Point Center < 1 lux Environment

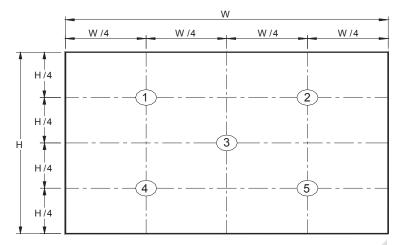


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Note 2: Definition of 5 points position (Display active area: 246mm (H) x 184.5mm (V))



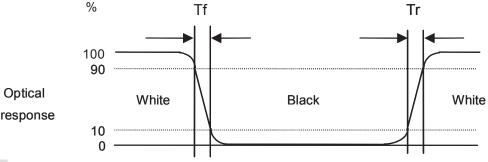
Note 3: The luminance uniformity of 5 points is defined by dividing the minimum luminance values by the maximum test point luminance

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

Note 4: Definition of contrast ratio (CR):

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

Viewing angle is the measurement of contrast ratio 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

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measurement viewing angle.

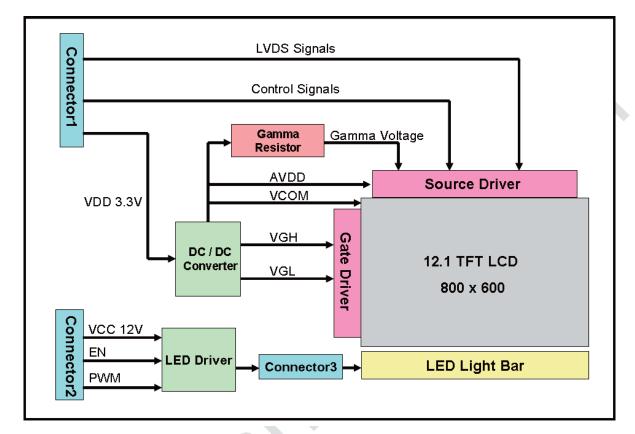
Normal Line $\phi = 0^{\circ}$, $\theta = 0^{\circ}$ 12 O'clock direction $\phi_H = 90^\circ$ θL=90° X 6 O'clock direction φ_L = 90° $\theta_R = 90^\circ$

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3. Functional Block Diagram

The following diagram shows the functional block of the 12.1 inch color TFT/LCD module:





4. Absolute Maximum Ratings

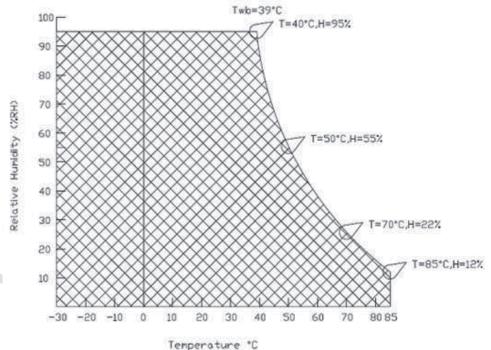
4.1 Absolute Ratings of TFT LCD Module

Item	Symbol	Min	Max	Unit
Logic/LCD Drive Voltage	VDD	-0.3	+3.8	[Volt]
Contorl Signals	SEL68, REVERSE	-0.3	VDD	[Volt]
LVDS Signals	CLKIN -/+, RIN0 ~ 3-/+	-0.3	VDD	[Volt]
LED Input Voltage	VCC	-0.3	+13	[Volt]
LED Control Signals	EN, PWM	-0.3	+6	[Volt]

4.2 Absolute Ratings of Environment

Item	Symbol	Min	Max	Unit
Operating Temperature	TOP	-30	+85	[°C]
Operation Humidity	HOP	5	95	[%RH]
Storage Temperature	TST	-30	+85	[°C]
Storage Humidity	HST	5	95	[%RH]

Note: Maximum Wet-Bulb should be 39 and no condensation.



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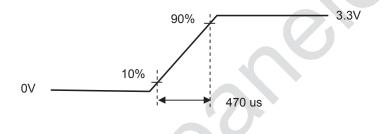
5. Electrical Characteristics

5.1 TFT LCD Module

5.1.1 LCD Electrical Specification

Symbol	Parameter		Min	Тур	Max	Units	Remark
VDD	Logic/LCD Input Voltage		3.0	3.3	3.6	[Volt]	
I _{VDD}	LCD Input Cu	ırrent	ı	0.2	0.24	[A]	VDD=3.3V at 60 HZ, all Black Pattern
P _{VDD}	LCD Power com	sumption	ı	0.66	0.79	[Watt]	VDD=3.3V at 60 HZ, all Black Pattern
I _{rush LCD}	LCD Inrush Current		ı	ı	1.5	[A]	VDD=3.3V at 60 HZ, all Black Pattern Note 1 VDD rising time ≥470us
V DD _{rp}	Allowable Logic/LCD Drive Ripple Voltage		-	-	100	[mV] p-p	VDD=3.3V at 60 HZ, all Black Pattern
VIH	High Level		0.7* VDD	-	VDD	[Volt]	SEL68 and REVERSE
VIL	Voltage Low Level		0	-	0.3* VDD	[Volt]	SEL68 and REVERSE

Note 1: Measurement condition:



VDD rising time



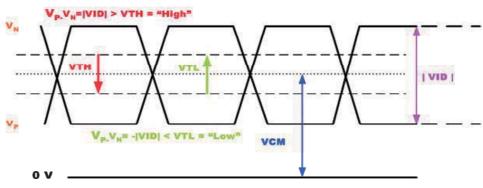
5.1.2 LVDS Electrical Characteristics

Symbol	Parameter	Min.	Тур.	Max.	Unit	Remark
VTH	Differential Input High Threshold	ı	ı	100	[mV]	VCM=1.2V
VTL	Differential Input Low Threshold	-100	1	1	[mV]	VCM=1.2V
VID	Input Differential Voltage	100	400	600	[mV]	
VICM	Differential Input Common Mode Voltage	1.1	-	1.45	[V]	VTH/VTL=+-100mV

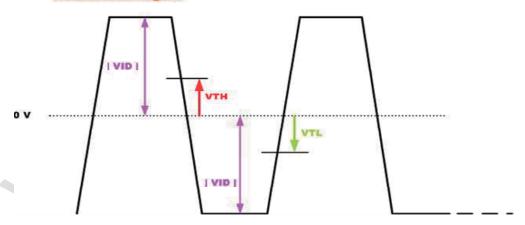
Input signals shall be low or Hi-Z state when VDD is off.

Note: LVDS Signal Waveform.

Single-end Signal



Differential Signal



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5.2.1 Parameter guideline for LCD

Following characteristics are measured under stable condition at 25 . (Room Temperature):

Symbol	Param	eter	Min.	Тур.	Max.	Unit	Remark
VCC	Input Vo	10.8	12	12.6	[Volt]		
I _{vcc}	Input Co	urrent	-	0.33	0.4	[A]	VCC=12V & 100% PWM Duty
P _{vcc}	Power Con	sumption	1	3.96	4.8	[Watt]	VCC=12V & 100% PWM Duty
	EN Control	BL On	3	-	5.5	[Volt]	
V _{EN}	Level	BL Off	0	-	0.5	[Volt]	
F _{PWM}	Dimming F	requency	200	-	20K	[Hz]	1
D _{PWM}	Dimming D	uty Cycle	5	-	100	%	
	Dimming	High Level	3	-	5.5	[Volt]	
V _{PWM}	Control Level	Low Level	0	-	0.5	[Volt]	
I _F	LED Forwar	d Current	-	45		[mA]	Ta = 25°C
V _F	LED Forward Voltage		-	3.2	3.6	[Volt]	I _F = 45 mA, Ta = 25°C
P _{LED}	LED Power Consumption		-	3.02	3.40	[Watt]	
LED life time			50,000	-	-	Hrs	I _F = 45 mA, Ta = 25°C

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

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

Note 3: I_F , V_F are defined for one piece LED. There are three LED channels in back light unit.

3 strings, 7 LEDs for each string, total 21 LEDs.

Note 4: If G121SN01 V4 module is driven by high current or at high ambient temperature & humidity condition. The operating life will be reduced.

Note 5: Operating life means brightness goes down to 50% initial brightness. Minimum operating life time is estimated data.

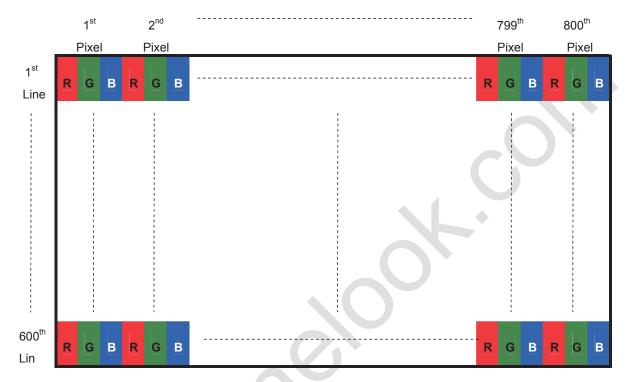


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6. Signal Characteristics

6.1 Pixel Format Image

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



6.2 Scanning Direction

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



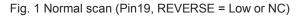




Fig. 2 Reverse scan (Pin19, REVERSE = High)





6.3 TFT-LCD Interface Signal Description

The module using a LVDS receiver embaded in AUO's ASIC. LVDS is a differential signal technology for LCD interface and a high-speed data transfer device.

		Input Signal Interface	
Pin No.	Symbol	Description	Remark
1	VDD	Power Supply, 3.3V (typical)	
2	VDD	Power Supply, 3.3V (typical)	
3	GND	Ground	
4	SEL68	6/ 8bits LVDS data input selection [H: 8bits L/NC: 6bit]	Note1.2
5	RIN0-	LVDS receiver signal channel 0	
6	RIN0+	LVDS Differential Data Input (R0, R1, R2, R3, R4, R5, G0)	Note1
7	GND	Ground	
8	RIN1-	LVDS receiver signal channel 1	
9	RIN1+	LVDS Differential Data Input (G1, G2, G3, G4, G5, B0, B1)	Note1
10	GND	Ground	
11	RIN2-	LVDS receiver signal channel 2	
12	RIN2+	LVDS Differential Data Input (B2, B3, B4, B5, HS, VS, DE)	Note1
13	GND	Ground	
14	CLKIN-	LVDS receiver signal clock	
15	CLKIN+	LVDS receiver signal clock	Note1
16	GND	Ground	
17	RIN3-	LVDS receiver signal channel 3,	
18	RIN3+	LVDS Differential Data Input (R6, R7, G6, G7, B6, B7, RSV)	Note1
		pin17=VDD & pin 18=GND for 6bit LVDS Input	Noted 0.0
19	REVERSE	Reverse Scan Function [H: Enable; L/NC: Disable]	Note1.2.3
20	NC/GND	Reserved for AUO internal test. Please treat it as NC.	Note2

Note 1: Input Signals shall be in low status when VDD is off.

Note 2: High stands for "3.3V", Low stands for "0V", NC stands for "No Connection".

Note 3: There is a pull-low resistor 10Kohm on PCB, so please input "3.3V" directly for H status and "0V" directly for L

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6.4 The Input Data Format

6.4.1 SEL68

SEL68 ="	Low" or "NC" for 6 bits LVDS Input
RXCLKIN	
RXIN0 _	G 0 R 5 R 4 R 3 R 2 R 1 R 0 R
RXIN1	B1 B0 G5 G4 G3 G2 G1
RxIN2	DE X B5 B4 B3 B2 X
\$200 BEST SELECTION AND ADDRESS OF THE PARTY	High" for 8 bits LVDS Input
RXCLKIN	
RxIN0	
RXIN1_	B1 B0 G5 G4 G3 G2 G1
RxIN2	DE

Note 1: Please follow PSWG.

RxIN3

Note 2: R/G/B data 7:MSB, R/G/B data 0:LSB

RSV

Note 3: RSV stands for "Reserved".

Signal Name	Description	Remark
R7	Red Data 7	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	For 6Bits LVDS input
R1	Red Data 1	MSB: R5 ; LSB: R0
R0	Red Data 0	
G7	Green Data 7	Green-pixel Data
G6	Green Data 6	
G5	Green Data 5	For 8Bits LVDS input
G4	Green Data 4	MSB: G7 ; LSB: G0
G3	Green Data 3	
G2	Green Data 2	For 6Bits LVDS input
G1	Green Data 1	MSB: G5 ; LSB: G0
G0	Green Data 0	
B7	Blue Data 7	Blue-pixel Data
B6	Blue Data 6	
B5	Blue Data 5	For 8Bits LVDS input
B4	Blue Data 4	MSB: B7 ; LSB: B0
B3	Blue Data 3	
B2	Blue Data 2	For 6Bits LVDS input
B1	Blue Data 1	MSB: B5 ; LSB: B0
B0	Blue Data 0	
RxCLKIN	LVDS Data Clock	The typical frequency is 40MHz.
DE	Data Enable Signal	When the signal is high, the pixel data
	Ţ.	shall be valid to be displayed.
RSV	Reserved Signal	"High" or "Low" is acceptable

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

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6.5 TFT-LCD Interface Timing

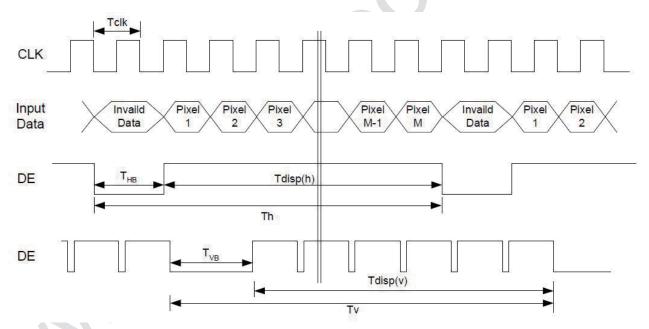
6.5.1 Timing Characteristics

Signa	ıl	Symbol	Min.	Тур.	Max.	Unit
Clock Freq	Clock Frequency		34	40	48.3	MHz
	Period	T_V	608	628	1023	
Vertical	Active	T_VD		600		T _{Line}
Section	Blanking	T _{VB}	8	28	423	
	Period	T _H	960	1056	1240	
Horizontal	Active	T_{HD}		800		T _{Clock}
Section	Blanking	T _{HB}	160	256	440	

Note 1: Frame rate is 60 Hz.

Note 2: DE mode.

6.5.2 Input Timing Diagram



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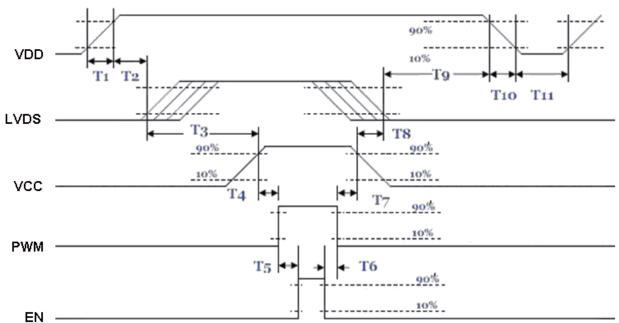




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6.6 Power ON/OFF Sequence

VDD power and lamp 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.



Power ON/OFF sequence timing

Parameter	Value			Units	
Parameter	Min.	Тур.	Max.	Ullits	
T1	0.5	-	10	[ms]	
T2	30	40	50	[ms]	
Т3	175	-	-	[ms]	
T4	10	-	-	[ms]	
T5	10	-	-	[ms]	
Т6	0	-	-	[ms]	
Т7	10	-	-	[ms]	
Т8	100	-	-	[ms]	
Т9	0	16	50	[ms]	
T10	-	-	10	[ms]	
T11	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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7. Connector & Pin Assignment

Physical interface is described as for the connector on module. These connectors are capable of accommodating the following signals and will be following components.

7.1 TFT-LCD Signal (CN1): LCD Connector

Connector Name / Designation	Signal Connector
Manufacturer	STM or compatible
Connector Model Number	MSB240420-E or compatible
Adaptable Plug	P240420 or compatible

Pin No.	Symbol	Pin No.	Symbol
1	VDD	2	VDD
3	GND	4	SEL68
5	RIN0-	6	RIN0+
7	GND	8	RIN1-
9	RIN1+	10	GND
11	RIN2-	12	RIN2+
13	GND	14	CLKIN-
15	CLKIN+	16	GND
17	RIN3-	18	RIN3+
19	REVERSE	20	NC/GND

7.2 LED Backlight Unit (CN2): Driver Connector

Connector Name / Designation	Lamp Connector
Manufacturer	ENTERY or compatible
Connector Model Number	3808K-F05N-12R or compatible
Mating Model Number	H208K–P05N-22B or compatible

Pin No.	symbol	description
Pin1	VCC	12V input
Pin2	GND	GND
Pin3	EN	5V-ON,0V-OFF
Pin4	PWM	Dimming
Pin5	NC	No Connection

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7.3 LED Backlight Unit: Light bar Connector

Connector Name / Designation	Lamp Connector
Manufacturer	ENTERY or compatible
Connector Model Number	3808K-F04N-12R or compatible
Mating Model Number(CN3)	H208K-D04N-22B or compatible

Pin No.	symbol	description	Color
Pin1	Н	LED anode	Red
Pin2	L	LED cathode	White
Pin3	L	LED cathode	White
Pin4	L	LED cathode	White

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8. Reliability Test Criteria

Items	Required Condition	Note
Temperature Humidity Bias	40°C, 90%RH, 300 hours	
High Temperature Operation	85 °C, 300 hours	
Low Temperature Operation	-30 °C, 300 hours	
Hot Storage	85 °C, 300 hours	
Cold Storage	-30 °C, 300 hours	
Thermal Shock Test	-20 °C / 30 min, 60 °C / 30 min, 100cycles, 40 °C minimun ramp rate	_
Hot Start Test	85 °C / 1Hr min. power on/off per 5 minutes, 5 times	
Cold Start Test	-30 °C / 1Hr min. power on/off per 5 minutes, 5 times	
Shock Test (Non-Operating)	50G, 20ms, Half-sine wave, (±X, ±Y, ±Z)	
Vibration Test	1.5G, (10~200Hz, Sine wave)	
(Non-Operating)	30 mins/axis, 3 direction (X, Y, Z)	
On/off test	On/10 sec, Off/10 sec, 30,000 cycles	
ESD	Contact Discharge: ± 8KV, 150pF(330Ω) 1sec, 8 points, 25 times/ point	Note 1
	Air Discharge: ± 15KV, 150pF(330Ω) 1sec, 8 points, 25 times/ point	
ЕМІ	30-230 MHz, limit 40 dBu V/m, 230-1000 MHz, limit 47 dBu V/m	

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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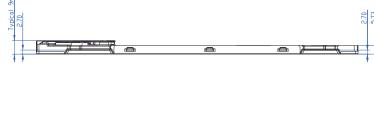
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9. Mechanical Characteristics

9.1 LCM Outline Dimension (Front View)



3.00 ± 0.50 13.00 ± 0.50 Ø3.30 Ø3.30 15.00 12.75 16.50 d3 30 1.65

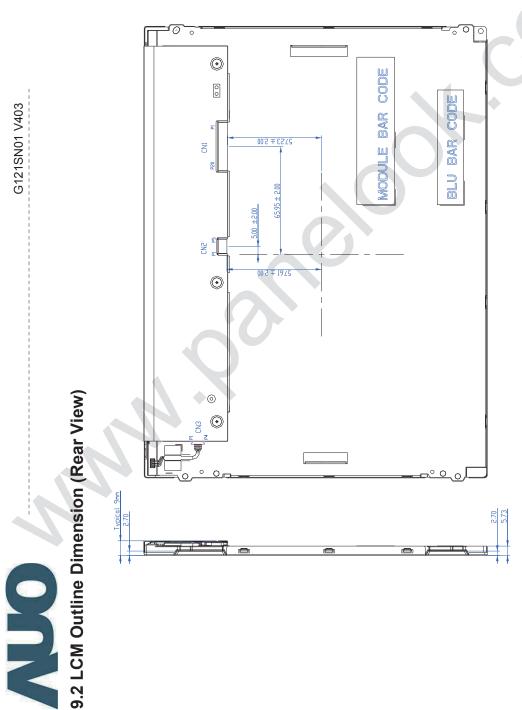
NOTE:

1. Tolerance unless marked are ±0.5mm

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②



One step solution for LCD / PDP / OLED panel application: Datasheet, inventory and accessory! www.panelook.com

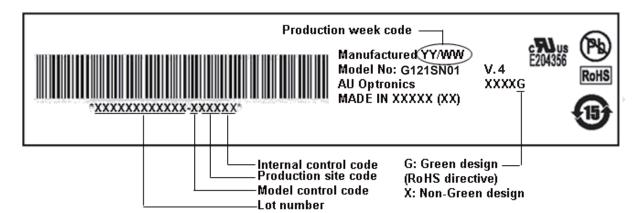




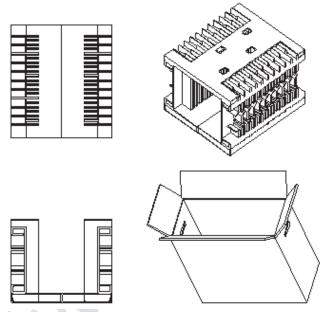
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10. Label and Packaging

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



10.2 Carton Package



- 1. Max. Capacity: 20pcs LCD Modules / per carton
- 2. Max. Weight: 18.2 kg / per carton
- 3. The outside dimension of carton is 570(L) mm x 320(W) mm x 420(H) mm





11.1 Sharp Edge Requirements

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

11.2 Materials

11.2.1 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.

11.2.2 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.

11.3 Capacitors

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

11.4 National Test Lab Requirement

The display module will satisfy all requirements for compliance to:

UL 1950, First Edition

U.S.A. Information Technology Equipment

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