

- Preliminary Specification
- Final Specification

Module	5.7 Inch Color TFT-LCD
Model Name	G057QN01 V2

Customer	Date
Checked & Approved by	
<p>Note: This Specification is subject to change without notice.</p>	

Approved by	Date
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Record of Revision

Version and Date	Page	Old description	New Description	Remark
0.1, March.28.2011	All	First edition preliminary specifications		
0.2, March.31.2011	20		Correct Mechanical Characteristics Diagram	
	5	Typical Power Consumption = TBD Weight = TBD	Typical Power Consumption = 3.34 W (LCD:0.46 W/LED BLU: 2.88W) @ All black pattern, Full Load and V _{LED} =12V Weight = 150g (typ.), 165g (max.)	
	6	Color / Chromaticity Coordinates =TBD	Update Chromaticity Coordinates	
	10	VDD Power = TBD	VDD Power = Typ. 0.46 w Max. 0.51 w	
	11	Input Current = TBD Power Consumption = TBD	Input Current = 0.24 A Power Consumption = 2.88 w	
	18	7.3 PIN 1 definition of CN1 and CN2		
	20	9. Mechanical Characteristics	Update 2D drawing	

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1. Operating Precautions

- 1) Display area (Polarizer) of TFT-LCD Module is easily to be damaged, please be cautious and not to scratch it.
- 2) Be sure to power off your machine before connecting or disconnecting your signal cable to TFT-LCD Module.
- 3) Wipe off water drop on display area 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) Display area (Glass) of TFT-LCD Module may be broken or cracked if bump Module against hard object.
- 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 TFT-LCD module assembly.
- 8) Do not press the reflector sheet at the back of the module to any direction.
- 9) In case if TFT-LCD 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 Reflector edge. Instead, press at the far ends of the LED Reflector edge softly. Otherwise the TFT-LCD Module may be damaged.
- 10) When inserting or removing of your signal cable to TFT-LCD Module, be sure not to apply abnormal force (rotate, tilt...etc.) to the Connector of the TFT-LCD 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.
- 14) Continuous operating TFT-LCD Module under high temperature environment may accelerate LED light bar exhaustion and reduce luminance dramatically.
- 15) The data on this specification sheet is applicable when TFT-LCD module is placed in landscape position.
- 16) Continuous displaying fixed pattern may induce image sticking. It's recommended to use screen saver or moving content periodically if fixed pattern is displayed on the screen.

2. General Description

G057QN01 V2 is designed for industrial display applications with QVGA (320 x RGB x 240) resolution and 262k colors (RGB 6-bits). It is composed of a TFT-LCD panel, driver ICs, control and power supply circuits board and backlight unit including LED driver circuit. G057QN01 V2 offers CMOS interface for display signal input.

2.1 Display Characteristics

The following items are G057QN01 V2 characteristics summary at 25 °C (Room Temperature).

Items	Unit	Specifications
Screen Diagonal	inch	5.7
Active Area	mm	115.2(H) x 86.4(V)
Pixels H x V		320 x 3(RGB) x 240
Pixel Pitch	mm	0.36 x 0.36
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		TN, Normally White
Nominal Input Voltage VDD	Volt	3.3 typ.
Typical Power Consumption	Watt	3.34 W (LCD:0.46 W/LED BLU: 2.88W) @ All black pattern, Full Load and VLED=12V
Weight	Grams	150g (typ.), 165g (max.)
Physical Size	mm	144.0(H)x 104.6(V) x 12.3(D) (typ.)
Electrical Interface		CMOS 6-bit Parallel RGB
Surface Treatment		Anti-Glare, Hardness 3H
Support Color		262K colors
The most suitable view angle		12 o'clock
Temperature Range		
Operating	°C	-30 to +85
Storage (Non-Operating)	°C	-30 to +85
RoHS Compliance		RoHS Compliance

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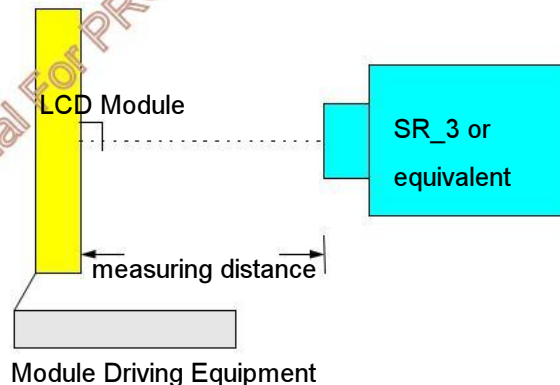
2.2 Optical Characteristics

The optical characteristics are measured under stable conditions at 25 \pm 1 (Room Temperature).

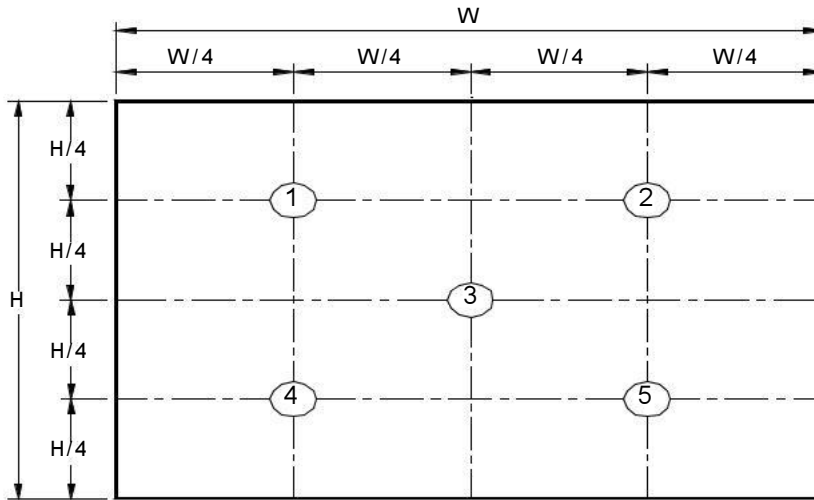
Item	Unit	Conditions	Min.	Typ.	Max.	Remark
White Luminance	cd/m ²	V _{LED} = 12V, D _{PWM} = 100% (center point)	600	800	-	Note 1
Uniformity	%	5 Points		-	1.3	Note 1, 2, 3
Contrast Ratio			500	800	-	Note 4
Response Time	msec	Rising	-	15	20	Note 5
	msec	Falling	-	10	15	
	msec	Rising + Falling	-	25	35	
Viewing Angle	degree degree	Horizontal (Right) CR = 10 (Left)	70 70	80 80	- -	Note 6
	degree degree	Vertical (Upper) CR = 10 (Lower)	60 60	70 70	- -	
Color / Chromaticity Coordinates (CIE 1931)		White x	0.263	0.313	0.363	
		White y	0.279	0.329	0.379	
		Red x	0.506	0.556	0.606	
		Red y	0.265	0.315	0.365	
		Green x	0.281	0.331	0.381	
		Green y	0.546	0.596	0.646	
		Blue x	0.106	0.156	0.206	
		Blue y	0.070	0.120	0.170	
Color Gamut	%		-	50	-	

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
- Environment < 1 lux



Note 2: Definition of 5 points position (Display active area: 115.2mm(W) x 86.4mm(H))



Note 3:

The luminance uniformity of 5 points is defined by dividing the maximum luminance value by the minimum luminance value at full white condition.

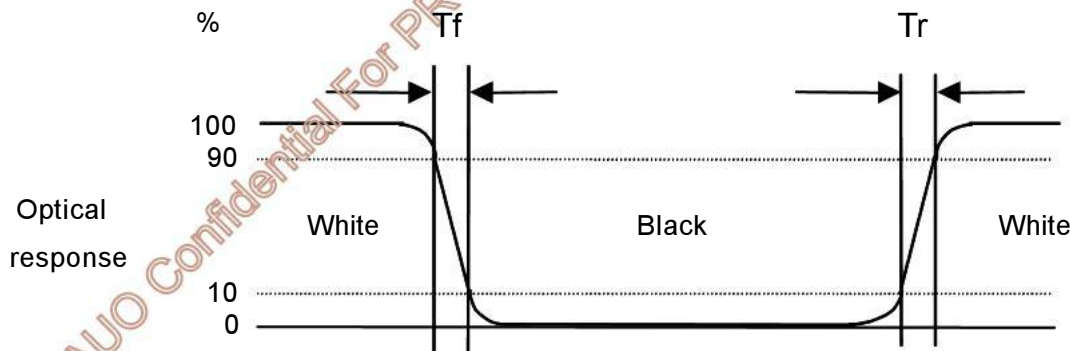
$$\delta_{w5} = \frac{\text{Maximum Brightness of five points}}{\text{Minimum Brightness of five points}}$$

Note 4: Definition of contrast ratio (CR):

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

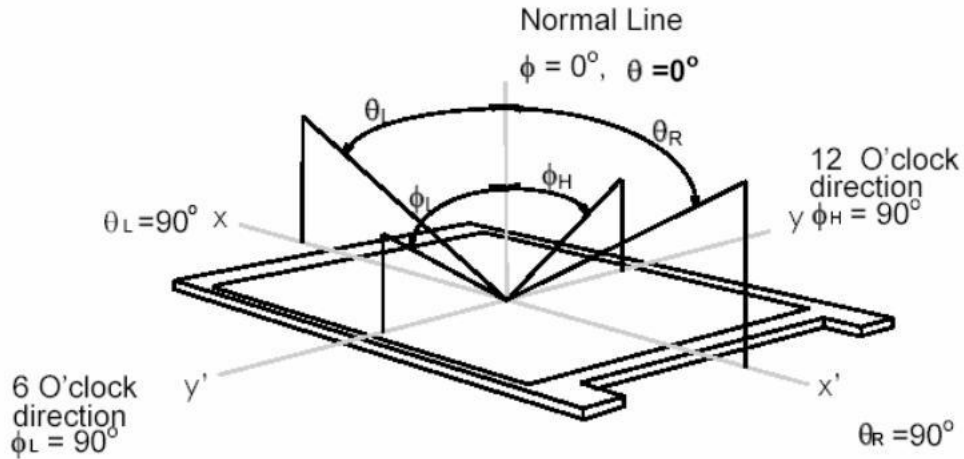
Note 5: Definition of response time:

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 definition is between 10% and 90% of amplitude. Please refer to the figure as below.



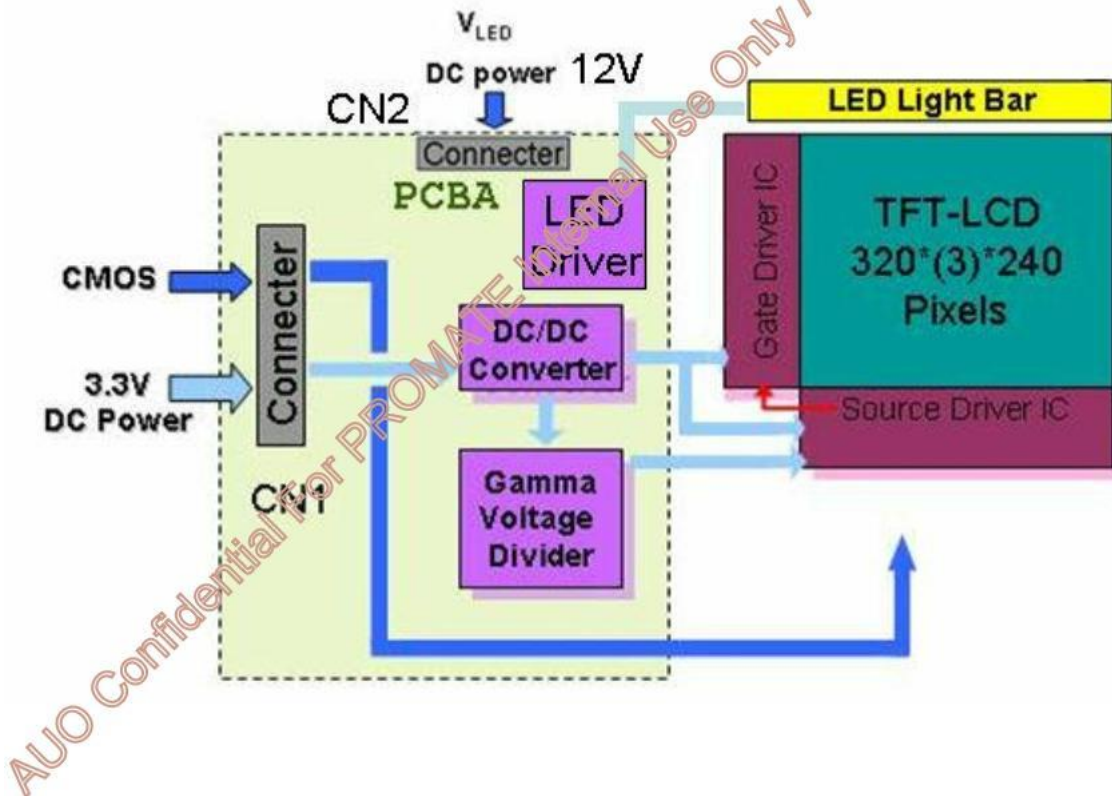
Note 6: Definition of viewing angle

Viewing angle is the measurement of contrast ratio ≥ 10 , at the screen center, over 180° horizontal and 180° vertical range. The 180° horizontal (θ_L, θ_R) and 180° vertical (ϕ_H, ϕ_V) range are illustrated as following figure.



3. Functional Block Diagram

The following diagram shows the functional block of the G057QN01 V2 color TFT/LCD module.



4. Absolute Maximum Ratings

4.1 Absolute Ratings

Item	Symbol	Min	Max	Unit	Remark
Logic/LCD Drive Voltage	VDD	-0.3	+3.6	Volt	Ta= 25°C
LCD Input Signal Voltage	VIN	-0.3	+3.6	Volt	Ta= 25°C
LED BLU Drive Voltage	V _{LED}	0	23	Volt	Ta= 25°C
LED Dimming Input Voltage	V _{PWM}	0	8	Volt	Ta= 25°C

4.2 Absolute Ratings of Environment

Item	Symbol	Min	Max	Unit	Remark
Operating Temperature	TOP	-30	+85	°C	Note 1, 2
Operation Humidity	HOP	5	95	%RH	Note 1, 2
Storage Temperature	TST	-30	+85	°C	Note 1
Storage Humidity	HST	5	95	%RH	Note 1

Note 1: Maximum Wet-Bulb should be 39°F and no condensation.

Note 2: Only operation is guaranteed. Optical performance should be evaluated at 25°C only.

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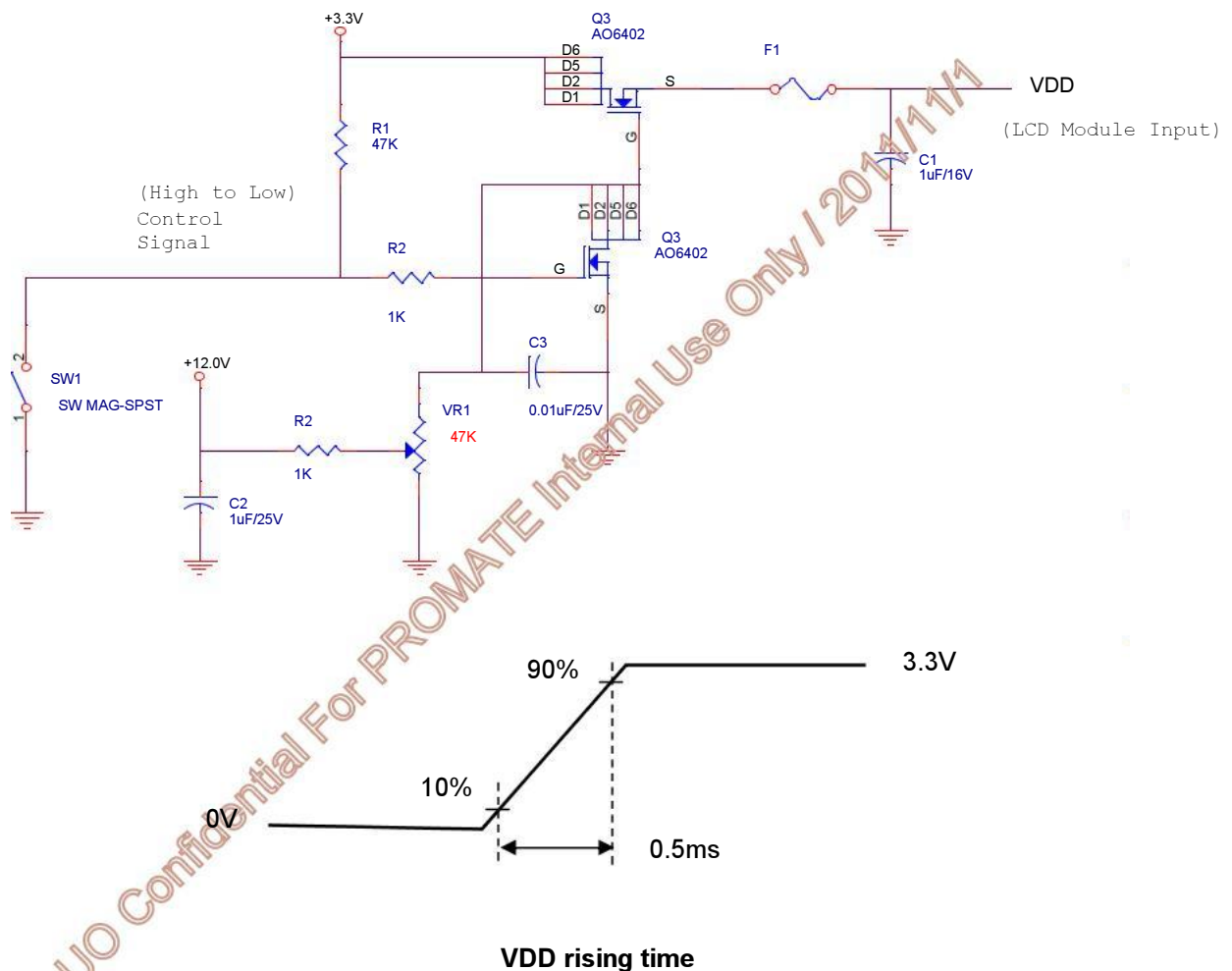
5. Electrical Characteristics

5.1 TFT-LCD Driving

5.1.1 Power Specification

Symbol	Parameter	Min	Typ	Max	Units	Remark
VDD	Logic/LCD Drive Voltage	3.0	3.3	3.6	Volt	
IDD	VDD Current	-	115	130	mA	All Black Pattern (VDD=3.3V, at 60Hz)
Irush	LCD Inrush Current	-	-	1.5	A	Note 1
PDD	VDD Power	-	0.46	0.51	Watt	All Black Pattern (VDD=3.3V, at 60Hz)
VDDrp	Allowable Logic/LCD Drive Ripple Voltage	-	-	100	mVp-p	All Black Pattern (VDD=3.3V, at 60Hz)

Note 1: Measurement condition:



5.1.2 Signal Electrical Characteristics

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

Parameter		Symbol	Min.	Typ.	Max.	Unit	Remarks
Logic Input Voltage for Display Signals	High	VIH	0.7VDD	-	VDD	Volt	
	Low	VIL	0	-	0.3VDD	Volt	
Input Voltage for RL/UD	High	VIH	0.7VDD	-	VDD	Volt	
	Low	VIL	0	-	0.3VDD	Volt	

5.2 Backlight Unit Driving

5.2.1 Parameter guideline for LED

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

Symbol	Parameter	Min	Typ	Max	Units	Remark
V _{LED}	Input Voltage	9	12	20	Volt	
I _{LED}	Input Current	-	0.24		A	V _{LED} =12V, D _{PWM} =100%
P _{LED}	Power Consumption	-	2.88		W	V _{LED} =12V, D _{PWM} =100%
I _{rushLED}	Inrush Current	-		1.5	A	V _{LED} =12V, D _{PWM} =100%
V _{PWM DIM}	Dimming control Voltage High	2.0	3.3	5.5	Volt	Note 1,2
	Dimming control Voltage Low	-	-	0.2	Volt	
F _{PWM}	Dimming Frequency	200		30K	Hz	
D _{PWM}	Dimming duty cycle	1		100	%	
V _{LED On/Off}	On Control Voltage	2	3.3	5.5	Volt	Note 3, 4
	Off Control Voltage	-	-	0.8	Volt	
Operating Life		50000	-	-	Hrs	Note 5, 6

Note 1: PWM dimming function can be operated by PWM signal. PWM duty cycle can adjust white Luminance.

(PWM High: ON and PWM Low: OFF)

Note 2: PWM signal can not be floating and pull-down to ground when waiting.

Note 3: Enable (V_{LED On/Off}) must be turned on late than V_{LED} and PWM Signal.

Note 4: Enable (V_{LED On/Off}) must be turned off early than V_{LED} and PWM Signal.

Note 5: If G057QN01 V2 module is driven by high current or at high ambient temperature & humidity condition. The operating life will be reduced.

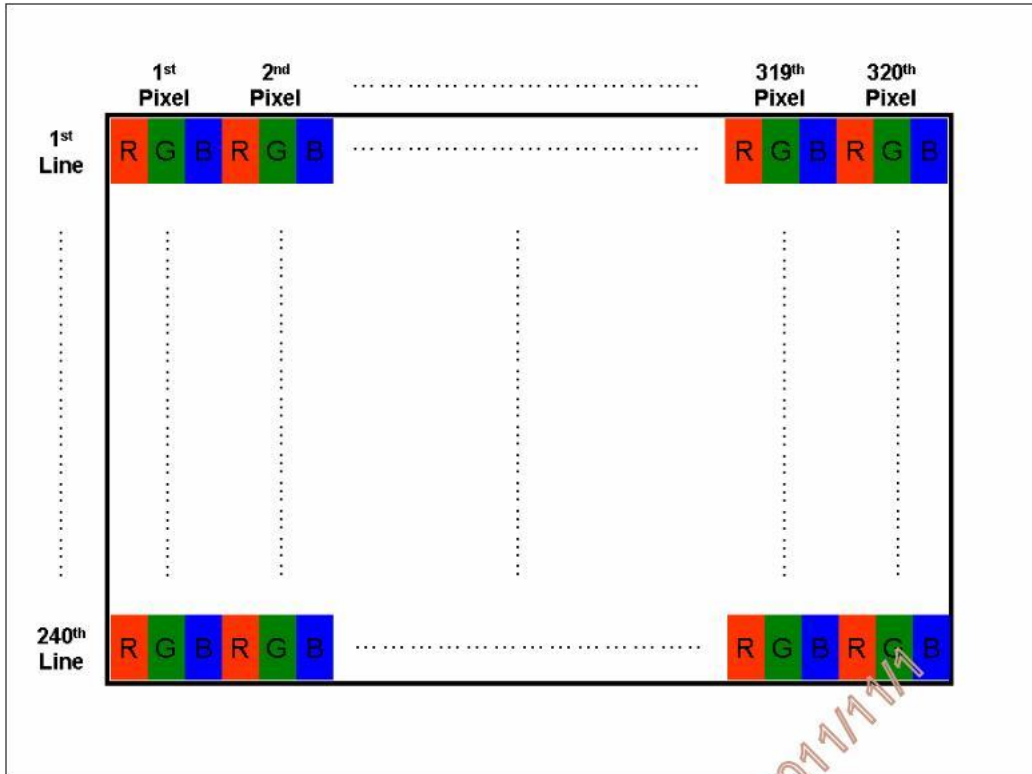
Note 6: Operating life means brightness goes down to 50% initial brightness. Minimum operating life time is estimated data.

Note 7: See Section 6.6 for LED Backlight Unit Interface Signal Description

6. Signal Characteristic

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.



R/L=Low or NC; U/D=High or NC



R/L=High; U/D=High or NC



R/L=Low or NC; U/D=Low



R/L=High; U/D=Low

Note 1: TFT-LCD interface signal description is shown in section 6.4.

6.3 The Input Data Format

This product displays 262,144 colors in terms of the 64 grey levels on RGB respectively. The following table demonstrates the display of input data.

Display colors		Data signal (0 : Low level, 1: High level)																	
		R5	R4	R3	R2	R1	R0	G5	G4	G3	G2	G1	G0	B5	B4	B3	B2	B1	B0
Basic colors	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Blue	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	Red	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	Magenta	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1
	Green	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
	Cyan	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	Yellow	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	White	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Red grayscale	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Dark	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	↑																		
	↓																		
	bright	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Green grayscale	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Dark	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	↑																		
	↓																		
	bright	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0
Blue grayscale	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	↑																		
	↓																		
	bright	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1
Blue		0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
	Blue	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1

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6.4 TFT- LCD Interface Signal Description

PIN No.	Symbol	Pin Description
1	GND	Ground
2	DOTCLK	Dot clock
3	NC	NC
4	NC	NC
5	GND	Ground
6	R0	Red data (LSB)
7	R1	Red data
8	R2	Red data
9	R3	Red data
10	R4	Red data
11	R5	Red data (MSB)
12	GND	Ground
13	G0	Green data (LSB)
14	G1	Green data
15	G2	Green data
16	G3	Green data
17	G4	Green data
18	G5	Green data (MSB)
19	GND	Ground
20	B0	Blue data (LSB)
21	B1	Blue data
22	B2	Blue data
23	B3	Blue data
24	B4	Blue data
25	B5	Blue data (MSB)
26	GND	Ground
27	DE	Data Enable Signal
28	VDD	Power supply (3.3V Typ. ONLY)
29	VDD	Power supply (3.3V Typ. ONLY)
30	R/L	Horizontal reverse scan (Low or NC → Normal; High → Right & Left Reverse Scan)
31	U/D	Vertical reverse scan (High or NC → Normal; Low → Up & Down Reverse Scan)
32	NC	NC
33	GND	Ground

Note 1: "Low" stands for 0V. "High" stands for 3.3V. "NC" stands for "No Connection".

6.5 TFT- LCD Interface Timing

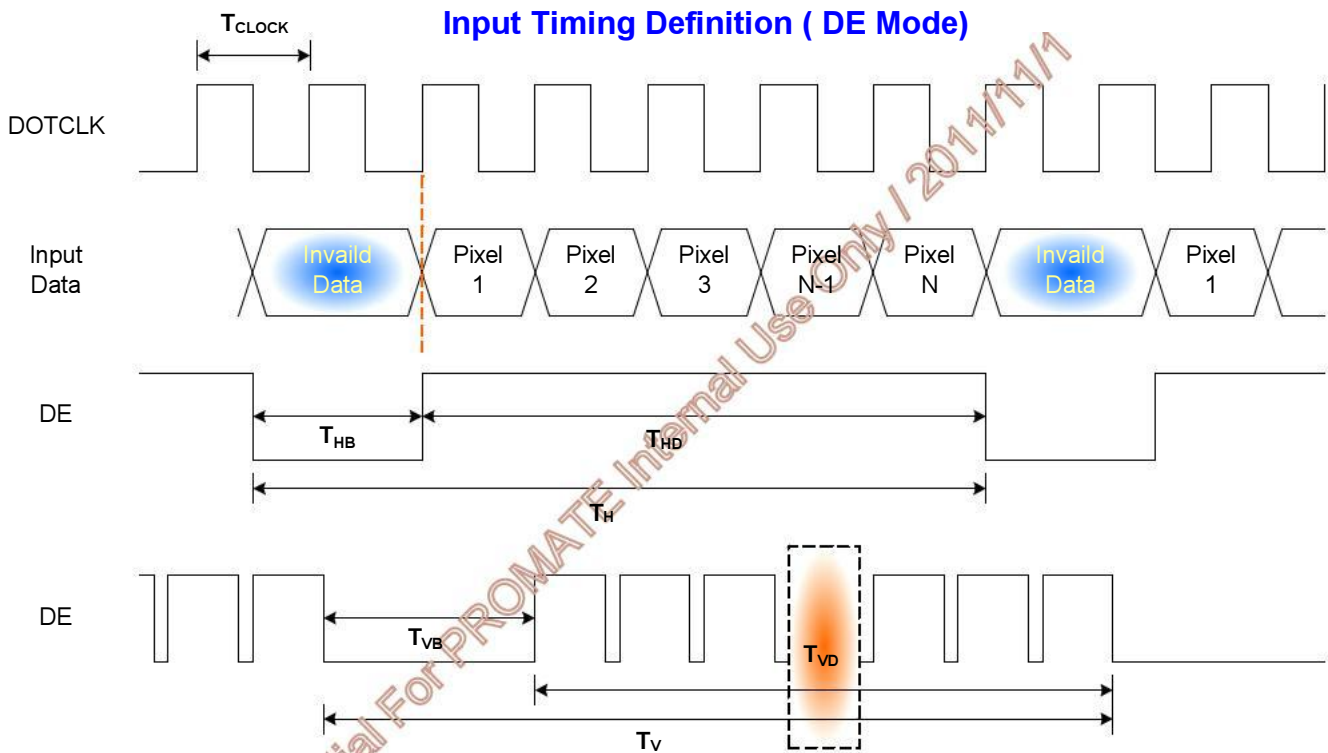
6.5.1 Timing Characteristics

DE mode only

Signal		Symbol	Min.	Typ.	Max.	Unit	Remark
Clock frequency (DOTCLK)		$1/T_{\text{CLOCK}}$	6.2	6.4	12.1	MHz	Note1
Horizontal Section	Period	T_H	406	408	560	T_{CLOCK}	Note1
	Active	T_{HD}	320				
	Blanking	T_{HB}	86	88	240		
Vertical Section	Period	T_V	254	263	360	T_{LINE}	Note1
	Active	T_{VD}	240				
	Blanking	T_{VB}	14	23	120		

Note 1: Recommended frame rate is 60 Hz.

6.5.2 Input Timing Diagram



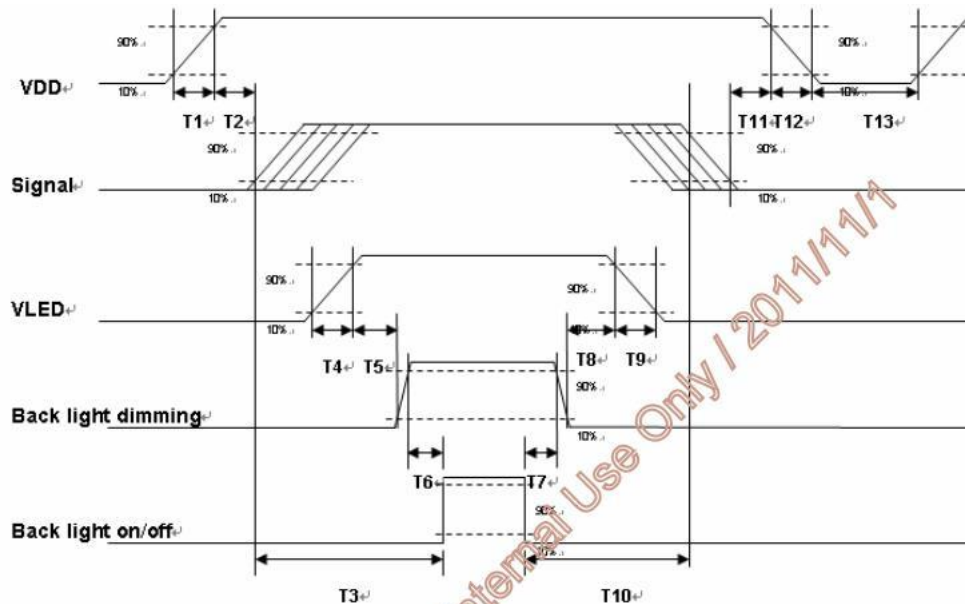
6.6 LED Backlight Unit Interface Signal Description

Pin #	Symbol	Pin Description
1	V _{LED}	12V input
2	V _{LED}	12V input
3	GND	Ground
4	GND	Ground
5	PWM DIM	1~100% PWM dimming
6	LED On/Off	0V-Off; 3.3~5V/NC-On

Note 1: "NC" stands for "No Connection"

6.7 Power ON/OFF Sequence

VDD power, LCD interface signals and backlight on/off sequence are shown in the following chart. Signals from any system shall be Hi-Z state or low level when VDD is off.



Power ON/OFF sequence timing

Parameter ^o	Value ^o			Unit ^o
	Min ^o	Typ ^o	Max ^o	
T1 ^o	0 ^o	- ^o	10 ^o	[ms] ^o
T2 ^o	30 ^o	40 ^o	50 ^o	[ms] ^o
T3 ^o	200 ^o	- ^o	- ^o	[ms] ^o
T4 ^o	0.5 ^o	- ^o	10 ^o	[ms] ^o
T5 ^o	10 ^o	- ^o	- ^o	[ms] ^o
T6 ^o	10 ^o	- ^o	- ^o	[ms] ^o
T7 ^o	0 ^o	- ^o	- ^o	[ms] ^o
T8 ^o	10 ^o	- ^o	- ^o	[ms] ^o
T9 ^o	- ^o	- ^o	10 ^o	[ms] ^o
T10 ^o	110 ^o	- ^o	- ^o	[ms] ^o
T11 ^o	0 ^o	18 ^o	50 ^o	[ms] ^o
T12 ^o	- ^o	- ^o	10 ^o	[ms] ^o
T13 ^o	1000 ^o	- ^o	- ^o	[ms] ^o

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.

7. Connector & Pin Assignment

7.1 TFT- LCD Signal (CN1): LCD Connector

Manufacturer	Starconn
Connector Model Number	089H33-000100-G2-R, compatible with IMSA-9637S-33Y902 & ELCO 08-6210--033-340-800+

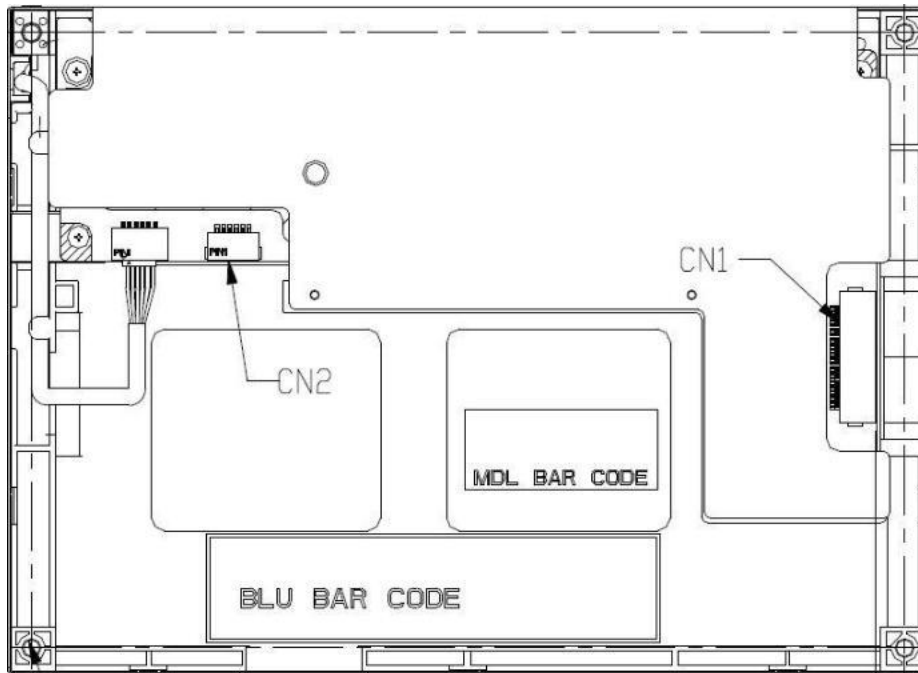
Pin#	Symbol	Pin#	Symbol	Pin#	Symbol
1	GND	12	GND	23	B3
2	DOTCLK	13	G0	24	B4
3	NC	14	G1	25	B5
4	NC	15	G2	26	GND
5	GND	16	G3	27	DE
6	R0	17	G4	28	VDD
7	R1	18	G5	29	VDD
8	R2	19	GND	30	R/L
9	R3	20	B0	31	U/D
10	R4	21	B1	32	NC
11	R5	22	B2	33	GND

7.2 LED Backlight Unit (CN2): Backlight Connector

Manufacturer	JST
Connector Model Number	SM06B-SRKS-G-TB compatible with JST SM06B-SRSS-TB (LS) (SN)
Mating Connector Model Number	JST SHR-06V-BKHF-B or compatible

Pin #	Symbol	Pin #	Symbol
1	V _{LED}	4	GND
2	V _{LED}	5	PWM DIM
3	GND	6	LED ON/OFF

7.3 PIN 1 definition of CN1 and CN2



(Rear side of TFT-LCD)

8. Reliability Test Criteria

Items	Required Condition	Remark
Temperature Humidity Bias	40I /90%,300Hr	Note 2
High Temperature Operation	85I ,300Hr	Note 2
Low Temperature Operation	-30I ,300Hr	Note 2
High Temperature Storage	85I ,300 hours	Note 2
Low Temperature Storage	-30°C ,300 hours	Note 2
Thermal Shock Test	-20°C/30 min ,60°C/30 min ,100cycles	Note 2
Hot Start Test	85°C/1 Hr (min.), power on/off per 5 minutes, repeat 5 times	Note 2
Cold Start Test	-30°C/1 Hr (min.), power on/off per 5 minutes, repeat 5 times	Note 2
Shock Test (Non-Operating)	50G,20ms,Half-sine wave, (± X, ± Y, ± Z)	Note 2
Vibration Test (Non-Operating)	1.5G, 10~200~10Hz, Sine wave, 30mins/axis, 3 direction (X, Y, Z)	Note 2
ESD	Contact Discharge: ± 8KV, 150pF(330Ω) 1sec, 8 points, 25 times/point Air Discharge: ± 15KV, 150pF(330Ω) 1sec, 8 points, 25 times/point	Note 1,2
Attitude Test	Operating: 14,000 ft, Ramp: 2000 ft/min, 8hrs	Note 2

	Non-operating: 40,000 ft, Ramp: 2000 ft/min, 24hrs	
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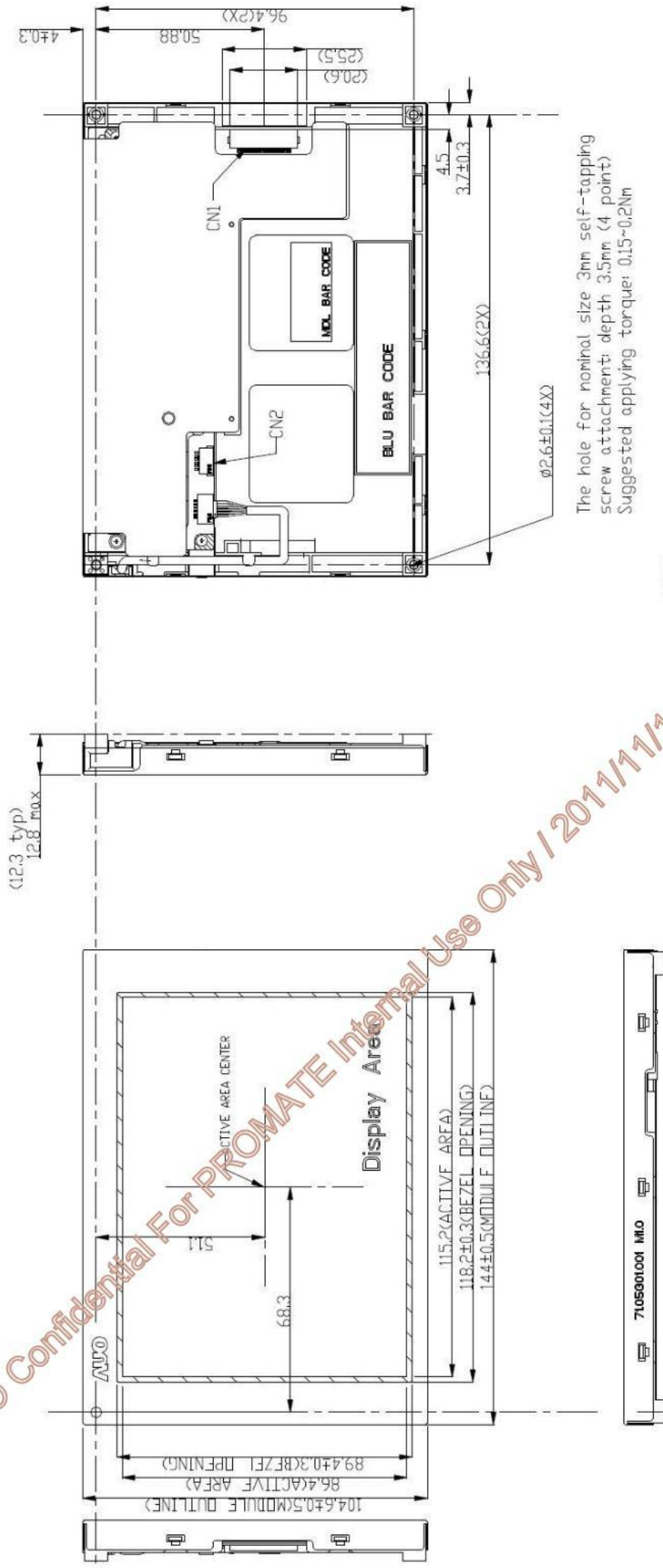
Note1: According to EN61000-4-2 ESD class B criteria, some performance degradation is allowed. TFT-LCD module is self-recoverable, no data lost and no hardware failures after test.

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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9. Mechanical Characteristics

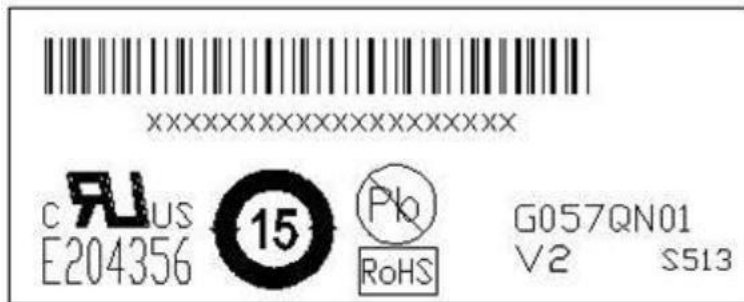


The hole for nominal size 3mm self-tapping screw attachment: depth 3.5mm (4 point)
Suggested applying torque: 0.15~0.2Nm

NOTE:
1. CN1/F CONNECTOR IS 089H33-000100-G2-R (STARCONN)
CN2/LED DRIVER CONNECTOR IS SM06B-SRKS(HFXJST)
2. TOLERANCE IS ±0.5 IF NOT SPECIFIED.

10. Label and Packaging

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

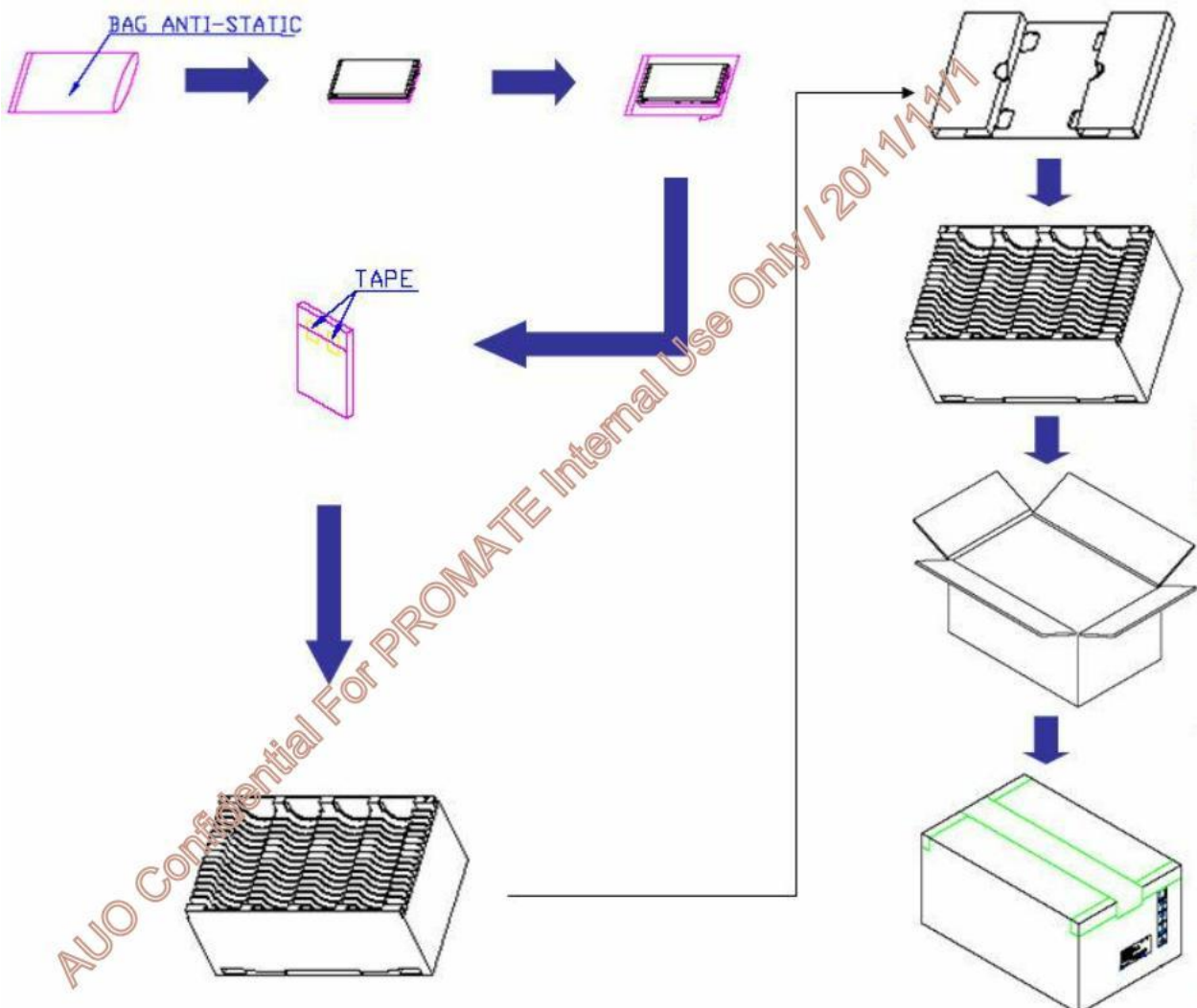


10.2 Carton Package

Max. capacity: 60 pieces TFT-LCD module per carton

Max. weight: 12.95 kg per carton

Outside dimension of carton: 520(L)mm* 340(W)mm* 250(H)mm



11 Safety

11.1 Keen Edge Requirements

There will be no keen edges or corners 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 TFT-LCD 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 TFT-LCD 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 TFT-LCD module, provisions will be made to keep them from being inserted backwards.

11.4 National Test Lab Requirement

The TFT-LCD Module will satisfy all requirements for compliance to UL 60950 (U.S.A. Information Technology Equipment).

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