

- ☐ Preliminary Specifications
☒ Final Specifications

Module	7.0 Inch Color TFT-LCD
Model Name	G070VW01 V0

Customer Date Checked & Approved by	Approved by Date Grace Hung 2013/5/13 Prepared by Yichih Chen 2013/5/13
Note: This Specification is subject to change without notice.	General Display Business Division / AU Optronics corporation

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Contents

1. Operating Precautions	5
2. General Description	6
2.1 Display Characteristics	6
2.2 Optical Characteristics	7
3. Functional Block Diagram	10
4. Absolute Maximum Ratings	11
4.1 Absolute Ratings of TFT LCD Module	11
4.2 Absolute Ratings of Environment	11
5. Electrical Characteristics	12
5.1 TFT LCD Module	12
5.2 Backlight Unit	14
6. Signal Characteristic	15
6.1 Pixel Format Image	15
6.2 Signal Description	16
6.3 Scanning Direction	17
6.4 The Input Data Format	18
6.5 Interface Timing	19
6.6 Power ON/OFF Sequence	20
7. Connector & Pin Assignment	21
7.1 TFT LCD Signal (CN1): LVDS Connector	21
7.2 LED Backlight Unit (CN2): LED Driver Connector	21
7.3 LED Light Bar Input Connector (CN4):	22
8. Reliability Test Criteria	22
9. Mechanical Characteristics	23
9.1 LCM Front View	23
9.2 LCM Rear View	24
10. Label and Packaging	26
10.1 Shipping Label (on the rear side of TFT-LCD display)	26
10.2 Carton Package	26
11 Safety	27
11 Safety	27
11.1 Sharp Edge Requirements	27
11.2 Materials	27
11.3 Capacitors	27
11.4 National Test Lab Requirement	27

Version and Date	Page	Old description	New Description				
0.0 2008/10/17	All	First Edition					
0.1 2008/12/18	18	LED Backlight Unit (CN2) Pin description	Pin description has been corrected.				
0.2 2009/01/08	6	Viewing Angle(L/R/U/D) 80/80/60/80 (Typ.); 70/70/55/65 (Min.)	Viewing Angle(L/R/U/D) 80/80/80/80 (Typ.); 70/70/70/70 (Min.)				
	18	Dimming: Analog, 0.3~1.2V (10~100%)	Dimming: Analog, 0~5V (10~100%)				
0.3 2009/03/02	5	Typical power consumption 4.2w	Typical power consumption 3.7w				
	5		Wieght :165 ± 10 g				
	6		Uniformity:1.3				
	11		Update 5.1.1 Power specification				
	13		Update 5.2.1 Parameter guideline for LED				
	17		Update 6.6 Power ON/OFF Sequence				
	18		Update 6.5.1 Timing characteristics				
	20		Update 7.2 Pin descripton				
	24		Update 10. Label and Packageing				
1.0 2009/04/23	20		LVDS Connector: Add Manufacturer: STM Connector Model Number: Add STM-MSB24013P20HA Mating Model Number: Add STM-P24013P20				
	6	Contrast Ratio: 500(Typ)	Contrast Ratio: 1000(Typ); 750(min)				
	6		Update Color / Chromaticity Coordinates				
	13		Update min Swing Voltage=0.3V				
1.1 2009/05/15	13		Add the description of LED Light Bar in 5.2.1				
	21		Add 7.3 LED Light Bar Input Connector description				
	23		Add the description of LED Light Bar connector in LCM Rear View				
1.2 2011/09/01	10		Add the graph of temp v.s humidity				
1.3 2012/12/10	6	Contract Ratio: 1000(Typ); 750(min)	Contract Ratio: 750(Typ); 500(min)				
1.4 2013/05/13	13		Add Display ON/OFF voltage range				
			Display ON/OFF ¹⁾	On Control Voltage ²⁾	2 ³⁾	3.3 ⁴⁾	5 ⁵⁾
			Off Control Voltage ²⁾	- ³⁾	0 ⁴⁾	0.6 ⁵⁾	[Volt] ⁶⁾



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1. Operating Precautions

- 1) Since front polarizer is easily damaged, please be cautious 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 Reflector edge. Instead, press at the far ends of the LED Reflector 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) After installation of the TFT Module into an enclosure (Notebook PC Bezel, for example), do not twist nor bend the TFT Module even momentarily. At designing the enclosure, it should be taken into consideration that no bending/twisting forces are applied to the TFT Module from outside. Otherwise the TFT Module may be damaged.
- 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.
- 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 LCD module is placed in landscape position.
- 16) Continuous displaying fixed pattern may induce image sticking. It is recommended to use screen saver or shuffle content periodically if fixed pattern is displayed on the screen.

2. General Description

This specification applies to the 7.0 inch color TFT LCD module G070VW01 V0.

G070VW01 V0 designed with wide viewing angle; wide operating temperature and long life LEDs backlight is well suited to be the display units for Industrial Applications.

LED driving board for backlight unit is included in this panel and the structure of the LED units is replaceable.

G070VW01 V0 is built in timing controller and LVDS interface.

The screen format is intended to support the WVGA (800(H) x 480(V)) screen and 16.2M (RGB 8-bits) or 262k colors (RGB 6-bits).

G070VW01 V0 is a RoHS product.

2.1 Display Characteristics

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

Items	Unit	Specifications
Screen Diagonal	[inch]	7.0 (177.8mm)
Active Area	[mm]	152.40(H) x 91.44(V)
Pixels H x V		800x3(RGB) x 480
Pixel Pitch	[mm]	0.1905x 0.1905
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		TN, Normally White
Nominal Input Voltage VDD	[Volt]	3.3 typ.
Typical Power Consumption	[Watt]	3.7 typ.
Weight	[Grams]	165 ± 10
Physical Size	[mm]	170.0(W) x 111.0(H) x 7.5(D) (typ.)
Electrical Interface		1 channel LVDS
Surface Treatment		Anti-glare, Hardness 3H
Support Color		262K(6-bit) / 16.2M(8-bit)
Temperature Range Operating Storage (Non-Operating)	[°C] [°C]	-30 to +85 (panel surface temperature) -30 to +85
RoHS Compliance		RoHS Compliance

2.2 Optical Characteristics

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

Item	Unit	Conditions	Min.	Typ.	Max.	Note
White Luminance	[cd/m ²]	I _F = 80mA (center point)	300	400	-	1
Uniformity		5 Points		-	1.3	1.2.3
Contrast Ratio			500	750	-	4
Response Time	[msec]	Rising	-	20	30	5
	[msec]	Falling	-	10	20	
	[msec]	Rising + Falling	-	30	50	
Viewing Angle	[degree]	Horizontal (Right) CR ≥ 10 (Left)	70	80	-	6
	[degree]		70	80	-	
	[degree]	Vertical (Upper) CR ≥ 10 (Lower)	70	80	-	
	[degree]		70	80	-	
Color / Chromaticity Coordinates (CIE 1931)		Red x	0.55	0.60	0.65	1
		Red y	0.30	0.35	0.40	
		Green x	0.27	0.32	0.37	
		Green y	0.55	0.60	0.65	
		Blue x	0.10	0.15	0.20	
		Blue y	0.03	0.08	0.13	
		White x	0.26	0.31	0.36	
		White y	0.28	0.33	0.38	
Color Gamut	%		-	60	-	1

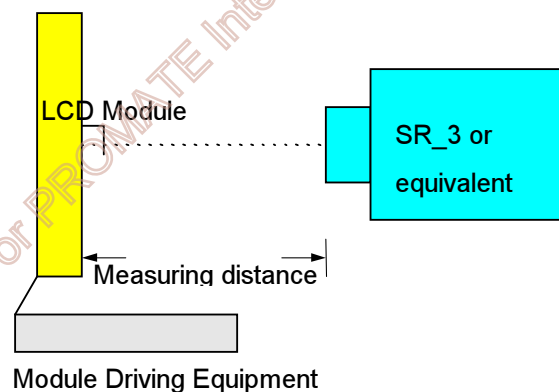
Note 1: Measurement method

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

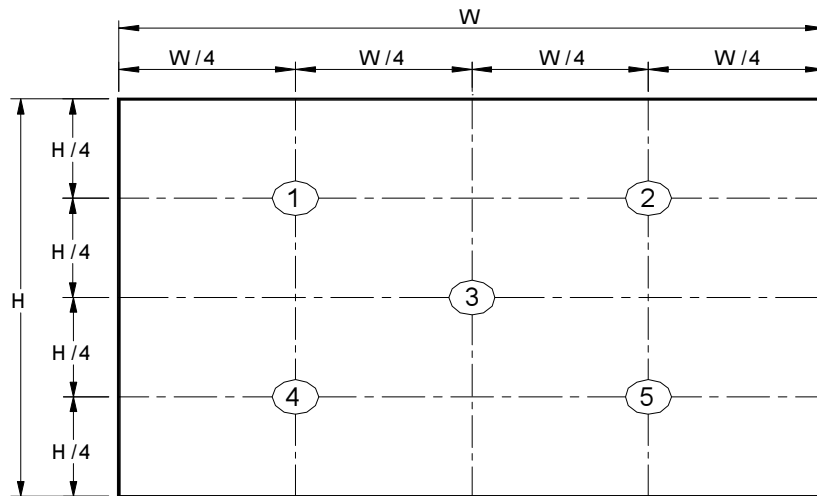
Aperture 1" with 50cm viewing distance

Test Point Center

Environment < 1 lux



Note 2: Definition of 5 points position (Display active area: 152.40(H) x 91.44(V))



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.

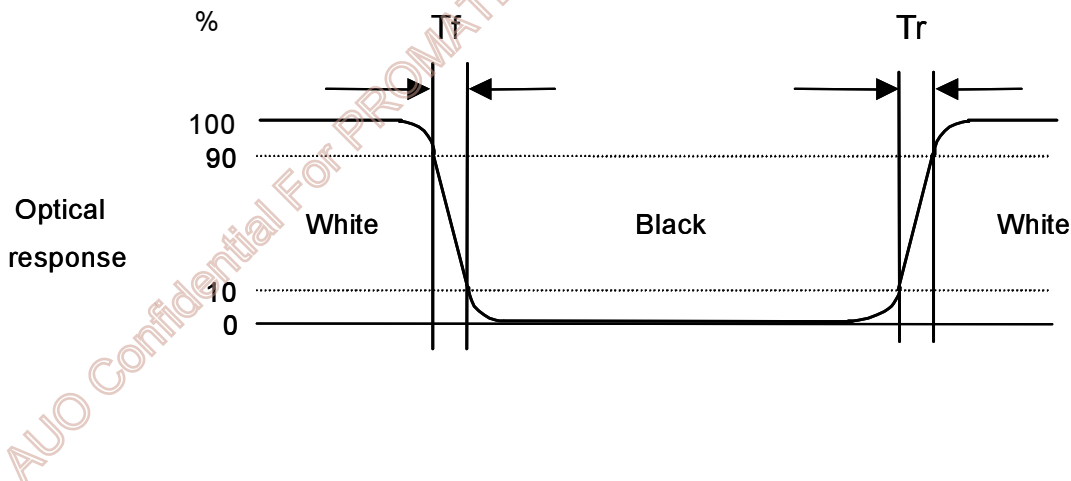
$$\delta_{W5} = \frac{\text{Maximum Brightness of five points}}{\text{Minimum Brightness of five points}}$$

Note 4 : Definition of contrast ratio (CR):

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

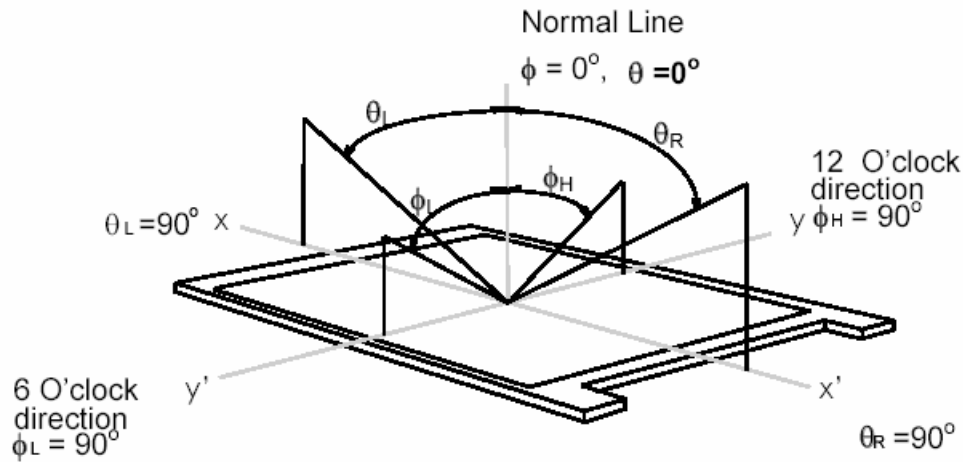
Note 5: Definition of response time:

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

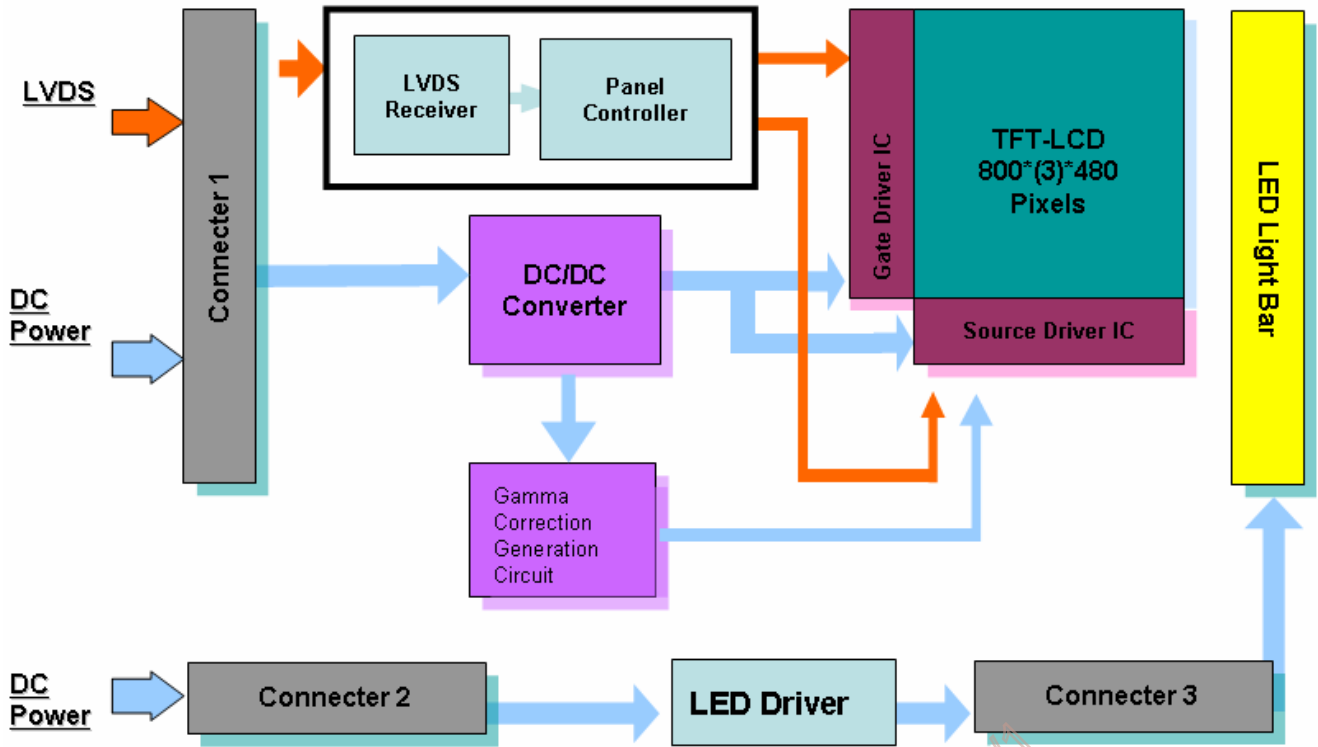
Viewing angle is the measurement of contrast ratio ≥ 10 , at the screen center, over a 180° horizontal and 180° vertical range (off-normal viewing angles). The 180° viewing angle range is broken down as below: 90° (θ) horizontal left and right, and 90° (ϕ) vertical high (up) and low (down). The measurement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



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3. Functional Block Diagram

The following diagram shows the functional block of the 7.0 inch color TFT/LCD module:



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4. Absolute Maximum Ratings

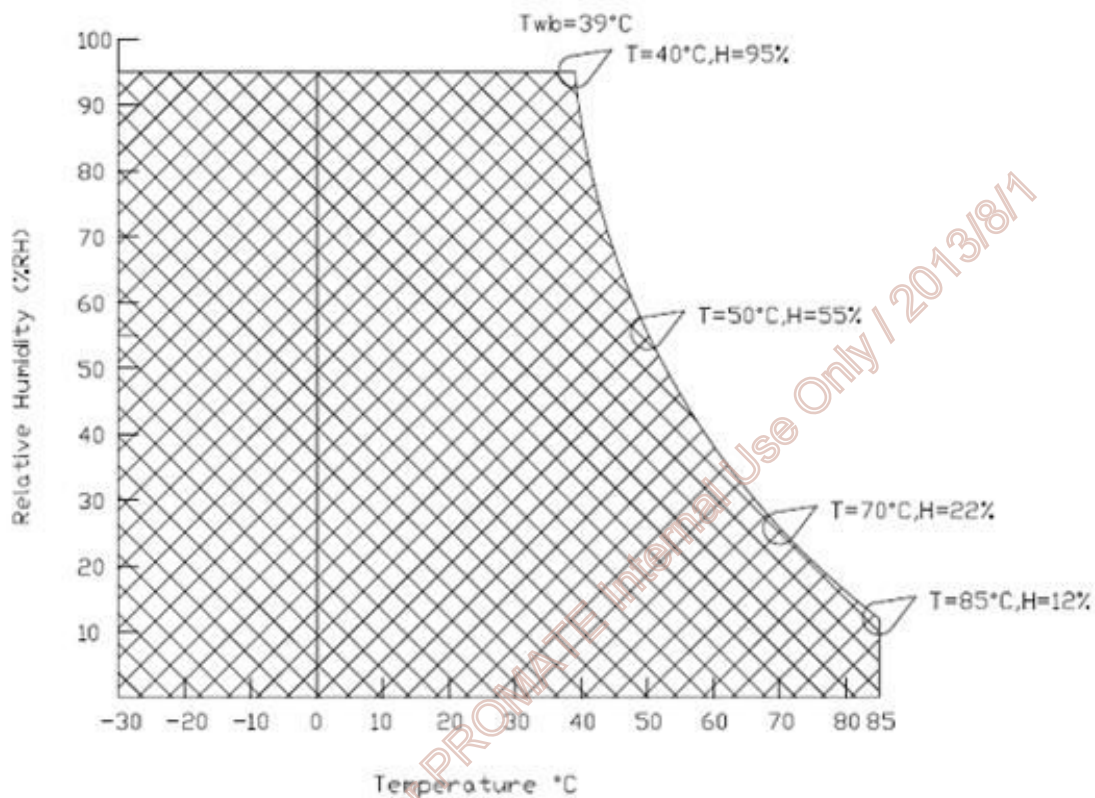
4.1 Absolute Ratings of TFT LCD Module

Item	Symbol	Min	Max	Unit	Conditions
Logic/LCD Drive Voltage	VDD	-0.3	+3.6	[Volt]	

4.2 Absolute Ratings of Environment

Item	Symbol	Min	Max	Unit
Operating Temperature	TOP	-30	+85	[°C]
Operation Humidity	HOP	5	90	[%RH]
Storage Temperature	TST	-30	+85	[°C]
Storage Humidity	HST	5	90	[%RH]

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



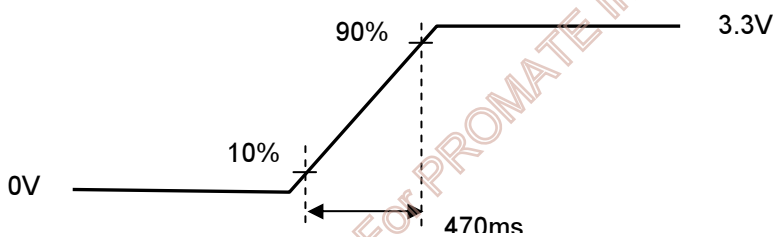
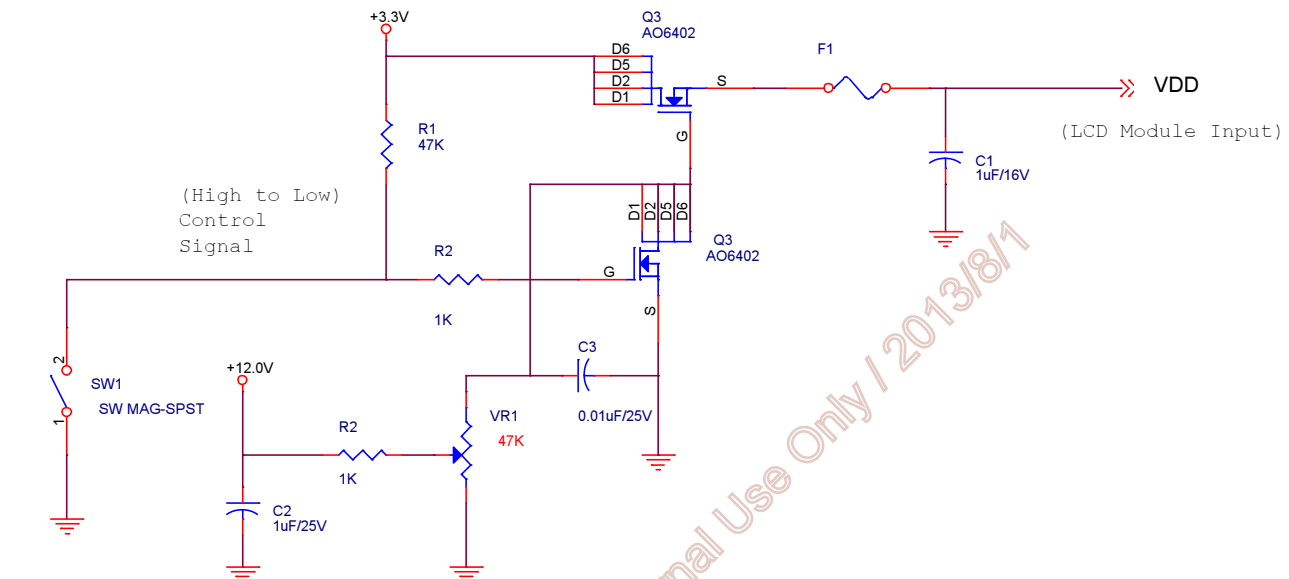
5. Electrical Characteristics

5.1 TFT LCD Module

5.1.1 Power Specification

Symbol	Parameter	Min	Typ	Max	Units	Remark
VDD	Logic/LCD Drive Voltage	3.0	3.3	3.6	[Volt]	±10%
I _{VDD}	VDD Current	-	240	260	[mA]	64 Gray Bar Pattern (VDD=3.3V, at 60Hz)
I _{rush}	LCD Inrush Current	-	-	3	[A]	Note 1
P _{VDD}	VDD Power	-	0.8	0.96	[Watt]	64 Gray Bar Pattern (VDD=3.3V, at 60Hz)

Note 1: Measurement condition:



VDD rising time



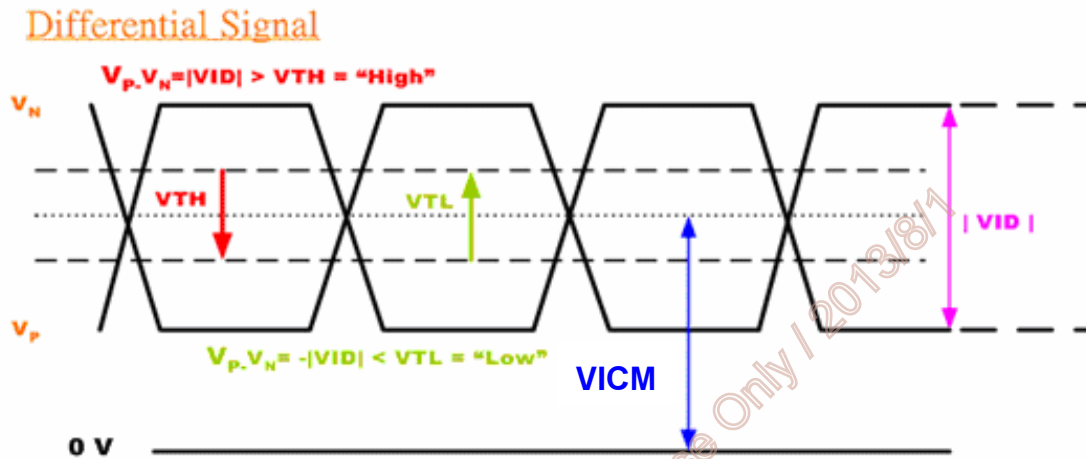
64 Gray pattern

5.1.2 Signal Electrical Characteristics

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

Symbol	Item	Min.	Typ.	Max.	Unit	Remark
V _{TH}	Differential Input High Threshold	-	-	100	[mV]	V _{ICM} =1.2V
V _{TL}	Differential Input Low Threshold	-100	-	-	[mV]	V _{ICM} =1.2V
V _{ID}	Input Differential Voltage	100	400	600	[mV]	
V _{ICM}	Differential Input Common Mode Voltage	1.1		1.6	[V]	V _{TH} /V _{TL} =±100mV

Note: LVDS Signal Waveform.



5.2 Backlight Unit

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.	Typ.	Max.	Unit	Remark
VCC	Input Voltage	10.8	12	12.6	[Volt]	
I_{VCC}	Input Current	-	0.24	-	[A]	100% analog dimming
P_{VCC}	Power Consumption	-	2.88	3.6	[Watt]	100% analog dimming
I_{rush LED}	Inrush Current	-	-	3.0	[A]	at rising time=470us
Dimming	Swing Voltage	0.3		5.0	V	Analog Dimming
Display ON/OFF	On Control Voltage	2	3.3	5	[Volt]	
	Off Control Voltage	-	0	0.6	[Volt]	
	Brightness percentage	25		100	%	
I_F	LED Forward Current	-	80	84	mA	Ta = 25℃
V_F	LED Forward Voltage	-	35	-	[Volt]	I _F = 80mA, Ta = -30℃
		-	32	36.5	[Volt]	I _F = 80mA, Ta = 25℃
		-	30.5	-		I _F = 80mA, Ta = 85℃
P_{LED}	LED Power Consumption	-	2.56	-	Watt	I _F = 80mA, Ta = 25℃
Operation Lifetime		50,000			Hrs	I _F =80mA, Ta= 25℃

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

Note 2: VCC, I_{VCC}, P_{VCC}, I_{rush LED} are defined for LED B/L.(100% analog dimming)

Note 3: I_F, V_F, P_{LED} are defined for LED Light Bar. There is one LED channel (AN1-CA1) in back light unit.

Note 4: If G070VW01 V0 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. Typical operating life time is estimated data.

6. Signal Characteristic

6.1 Pixel Format Image

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

	1			2															799			800		
1st Line	R	G	B	R	G	B	 - - - - -												R	G	B	R	G	B
	.			.			.												.			.		
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480th Line	R	G	B	R	G	B	 - - - - -												R	G	B	R	G	B

6.2 Signal Description

LVDS is a differential signal technology for LCD interface and high speed data transfer device. The connector pin definition is as below.

Pin No.	Symbol	Description
1	VDD	Power Supply, 3.3V (typical)
2	VDD	Power Supply, 3.3V (typical)
3	UD	Vertical Reverse Scan Control, When UD=High or NC → Normal Mode. When UD=Low → Vertical Reverse Scan. Note
4	LR	Horizontal Reverse Scan Control, When LR=High or NC → Normal Mode. When LR=Low → Horizontal Reverse Scan. Note
5	RxIN1-	LVDS differential data input Pair 0
6	RxIN1+	
7	GND	Ground
8	RxIN2-	LVDS differential data input Pair 1
9	RxIN2+	
10	GND	Ground
11	RxIN3-	LVDS differential data input Pair 2
12	RxIN3+	
13	GND	Ground
14	RxCLKIN-	LVDS differential Clock input Pair
15	RxCLKIN+	
16	GND	Ground
17	SEL 68	LVDS 6/8 bit select function control, Low or NC → 6 Bit Input Mode. High → 8 Bit Input Mode. Note
18	NC	NC
19	RxIN4-	LVDS differential data input Pair 3. Must be tied to Ground in 6 bit input mode.
20	RxIN4+	

Note : “Low” stands for 0V. “High” stands for 3.3V. “NC” stands for “No Connected.”

6.3 Scanning Direction

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

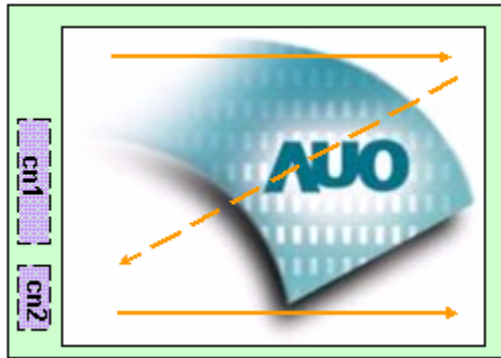


Fig. 1

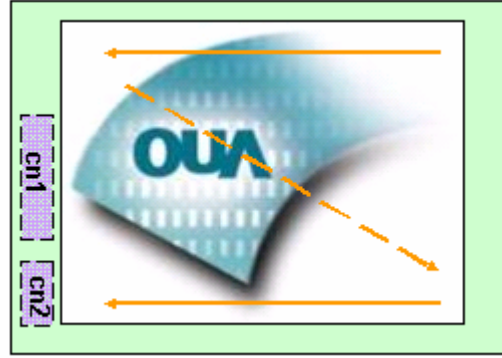


Fig. 2

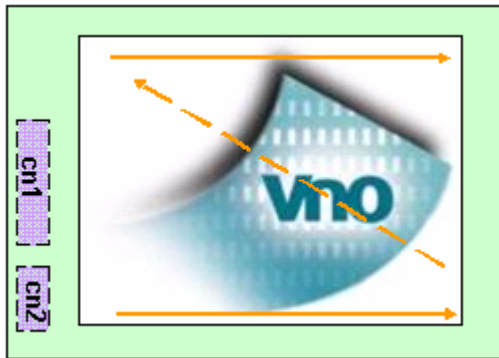


Fig. 3

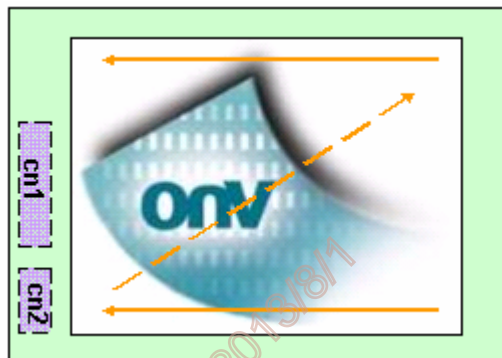


Fig. 4

Fig. 1 Normal scan (Pin3, UD = High or NC ; Pin4, RL = High or NC)

Fig. 2 Reverse scan (Pin3, UD = High or NC ; Pin4, RL = Low)

Fig. 3 Reverse scan (Pin3, UD = Low ; Pin4, RL = High or NC)

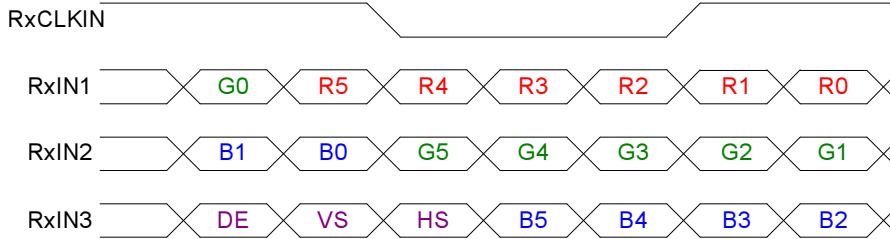
Fig. 4 Reverse scan (Pin3, UD = Low ; Pin4, RL = Low)

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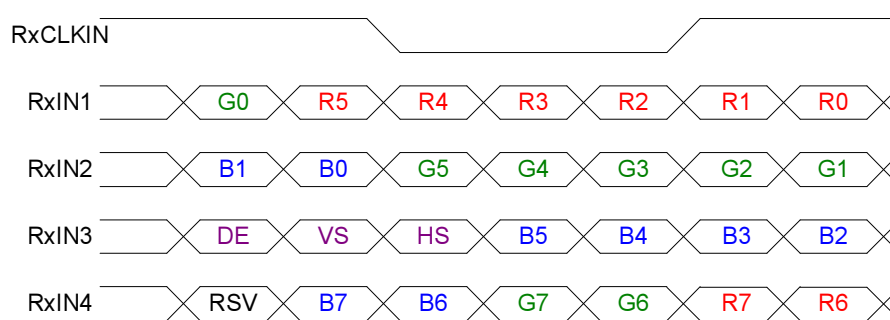
6.4 The Input Data Format

6.4.1 SEL68

SEL68 = "Low" or "NC" for 6 bits LVDS Input



SEL68 = "High" for 8 bits LVDS Input



Note1: Please follow PSWG.

Note2: R/G/B data 7:MSB, R/G/B data 0:LSB

Signal Name	Description	Remark
R7	Red Data 7 (MSB)	Red-pixel Data Each red pixel's brightness data consists of these 8 bits pixel data.
R6	Red Data 6	
R5	Red Data 5	
R4	Red Data 4	
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 Each green pixel's brightness data consists of these 8 bits pixel data.
G6	GreenData 6	
G5	GreenData 5	
G4	GreenData 4	
G3	GreenData 3	
G2	GreenData 2	
G1	GreenData 1	
G0	GreenData 0 (LSB)	
B7	Blue Data 7 (MSB)	Blue-pixel Data Each blue pixel's brightness data consists of these 8 bits pixel data.
B6	Blue Data 6	
B5	Blue Data 5	
B4	Blue Data 4	
B3	Blue Data 3	
B2	Blue Data 2	
B1	Blue Data 1	
B0	Blue Data 0 (LSB)	
RxCLKIN+	LVDS Clock Input	
RxCLKIN-		
DE	Display Enable	
VS	Vertical Sync	
HS	Horizontal Sync	

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

6.5 Interface Timing

6.5.1 Timing Characteristics

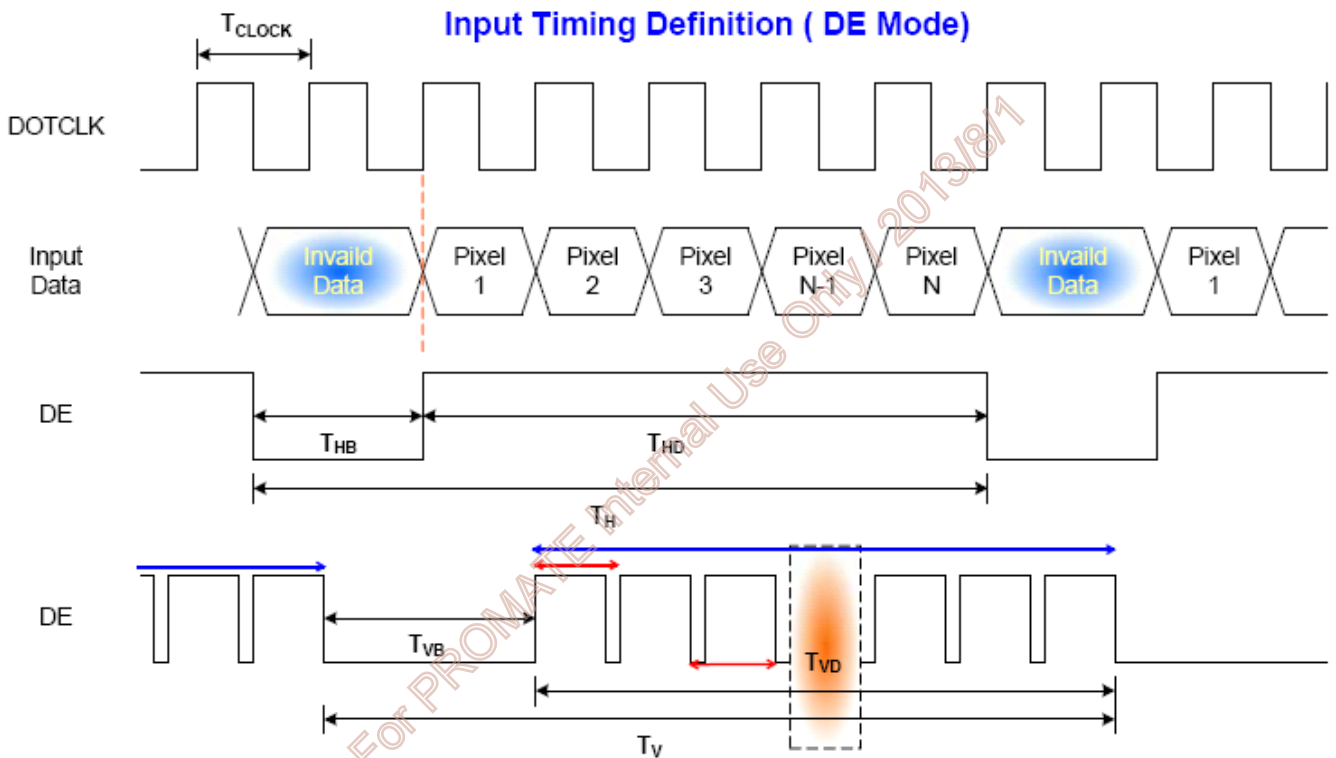
DE mode only

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Clock frequency		$1/T_{\text{Clock}}$	27	33.3	39.4	MHz	
Vertical Section	Period	T_V	490	508	530	T_H	
	Active	T_{VD}	480	480	480		
	Blanking	T_{VB}	8	28	50		
Horizontal Section	Period	T_H	920	1056	1240	T_{Clock}	
	Active	T_{HD}	800	800	800		
	Blanking	T_{HB}	120	256	440		

Note: Frame rate is 60 Hz.

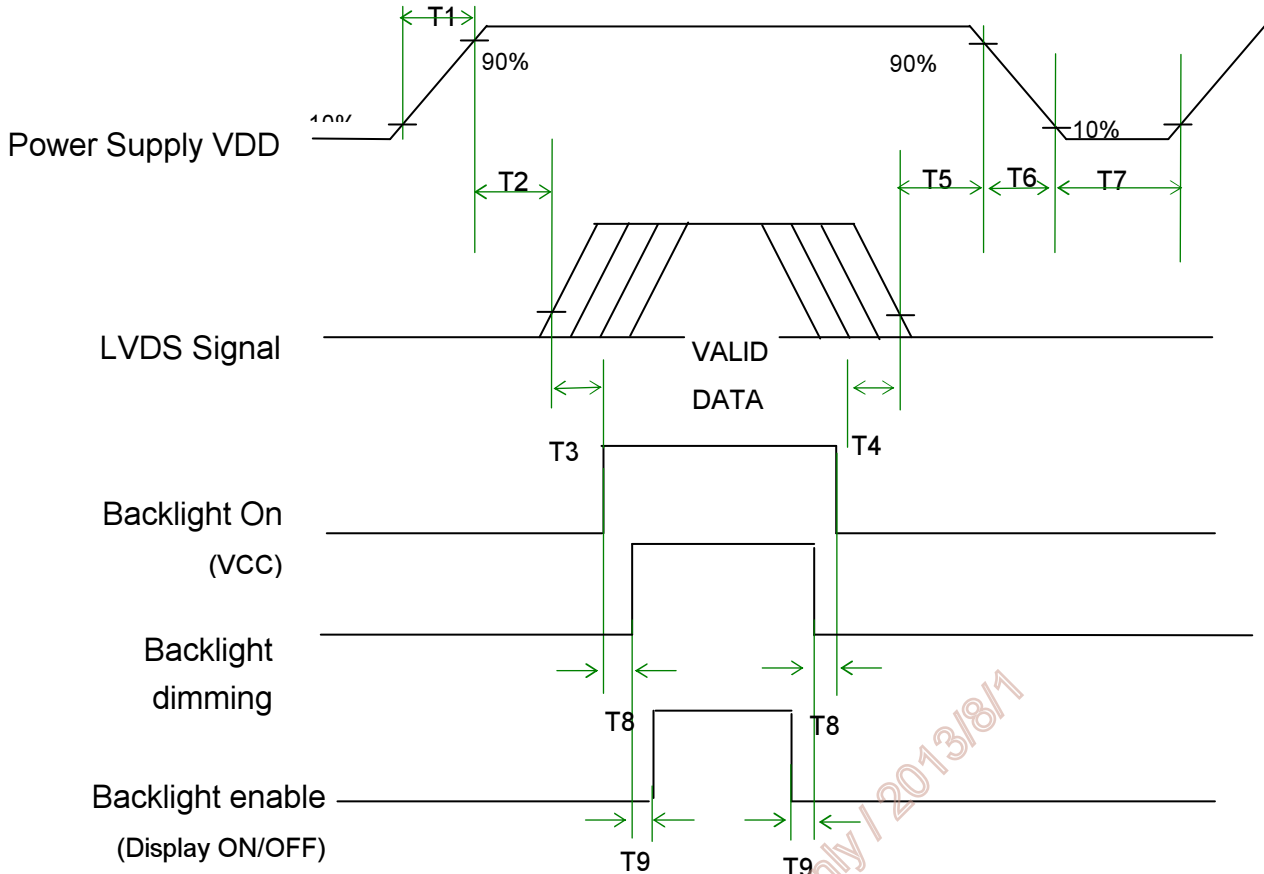
Note: DE mode.

6.5.2 Input Timing Diagram



6.6 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.



Power ON/OFF sequence timing

Parameter	Value			Units
	Min.	Typ.	Max.	
T1	0.5	-	10	ms
T2	0	40	50	ms
T3	200	-	-	ms
T4	200	-	-	ms
T5	0	16	50	ms
T6	0	-	10	ms
T7	1000	-	-	ms
T8	10	-	-	ms
T9	10	-	-	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.

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): LVDS Connector

Connector Name / Designation	Signal Connector
Manufacturer	STM, Hirose or compatible
Connector Model Number	STM -MSB24013P20HA, Hirose- DF19LA-20P-1H or compatible
Mating Model Number	STM-P24013P20, Hirose-DF19-20S-1C or compatible

Pin No.	Signal Name	Pin No.	Signal Name
1	VDD	2	VDD
3	UD	4	LR
5	RxIN1-	6	RxIN1+
7	GND	8	RxIN2-
9	RxIN2+	10	GND
11	RxIN3-	12	RxIN3+
13	GND	14	RxCKIN-
15	RxCKIN+	16	GND
17	SEL 68	18	NC
19	RxIN4-	20	RxIN4+

7.2 LED Backlight Unit (CN2): LED Driver Connector

Connector Name / Designation	LED Driver Connector
Manufacturer	Entery
Connector Model Number	3808K-F04N-02R or compatible
Mating Model Number	H208K-P04N-02B or compatible

Pin #	Symbol	Pin Description
1	GND	GND
2	Display ON/OFF	+3.3V:ON, 0V:OFF
3	Dimming	Analog Dimming
4	VCC12V	12V Power Input

7.3 LED Light Bar Input Connector (CN4):

Manufacturer	Entery or compatible
Connector Model Number	H208K-P02N-02B or compatible
Mating Connector Model Number	3808K-F02N-02R or compatible

Pin #	Symbol	Pin Description
1	AN1	LED anode
2	CA1	LED cathode

Pin #	Symbol	Cable color
1	AN1	Red
2	CA1	Black

8. Reliability Test Criteria

Items	Required Condition	Note
Temperature Humidity Bias	40□/90%,300 hours	
High Temperature Operation	85□,300 hours	
Low Temperature Operation	-30□,300 hours	
Hot Storage	85□,300 hours	
Cold Storage	-30□,300 hours	
Thermal Shock Test	-20□/30 min ,60□/30 min ,100cycles	
Shock Test (Non-Operating)	50G,20ms,Half-sine wave, (±X, ±Y, ±Z)	
Vibration Test (Non-Operating)	1.5G, (10~200Hz, P-P) 30 mins/axis (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 Air Discharge: ± 15KV, 150pF(330Ω) 1sec, 8 points, 25 times/ point	Note 1

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

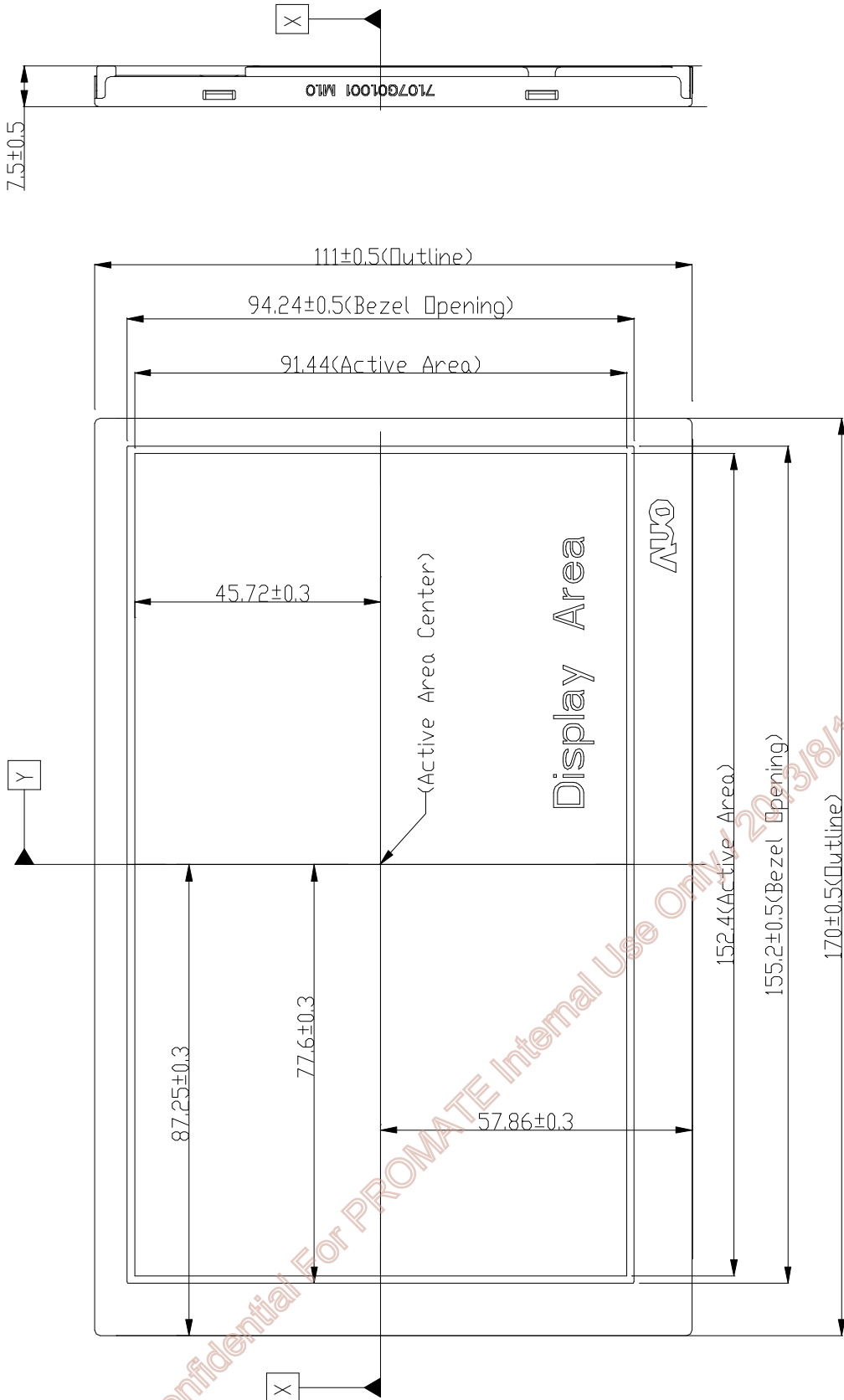
. Self-recoverable. No hardware failures.



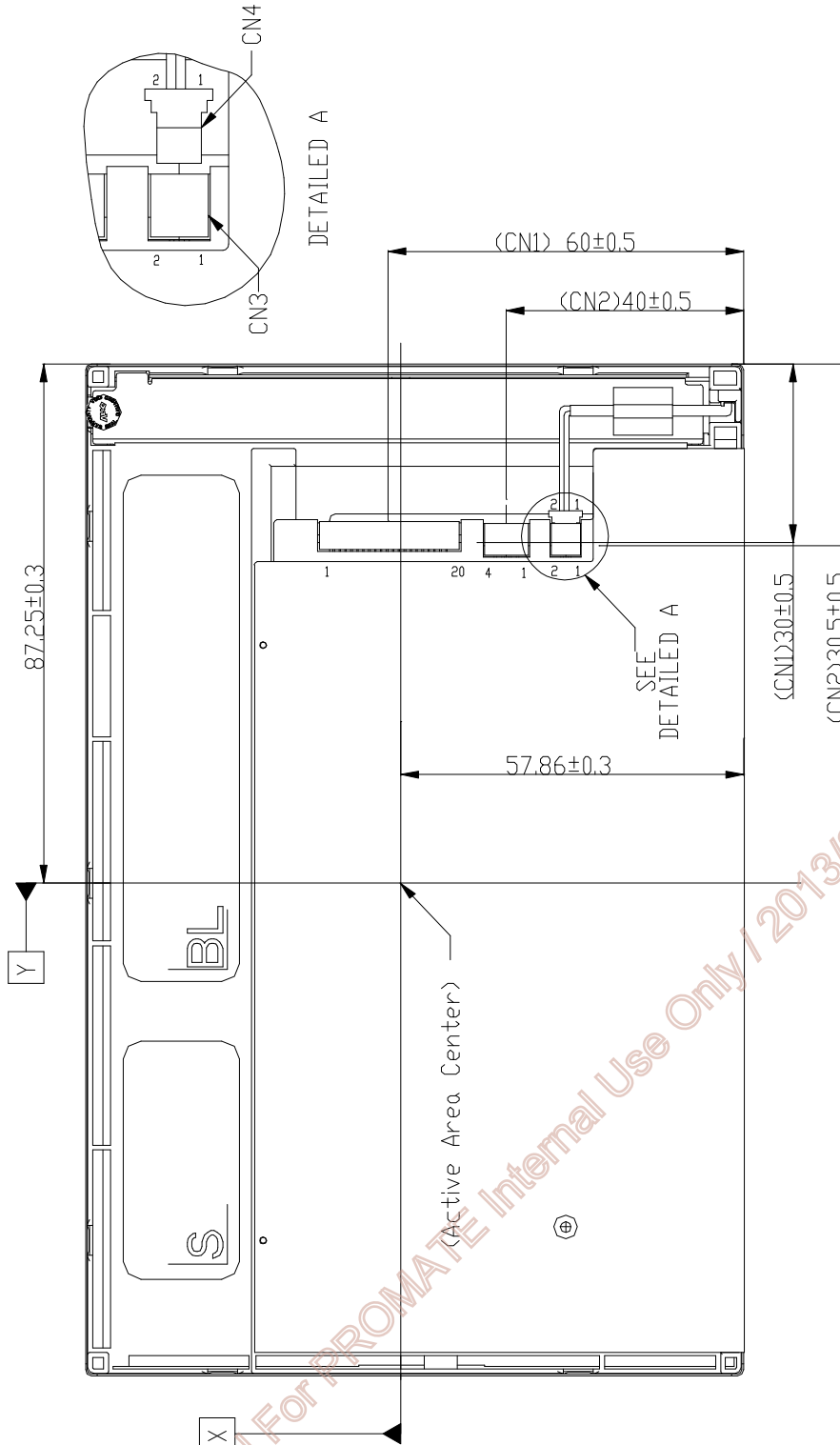
9. Mechanical Characteristics

9.1 LCM Front View

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9.2 LCM Rear View



NOTE:

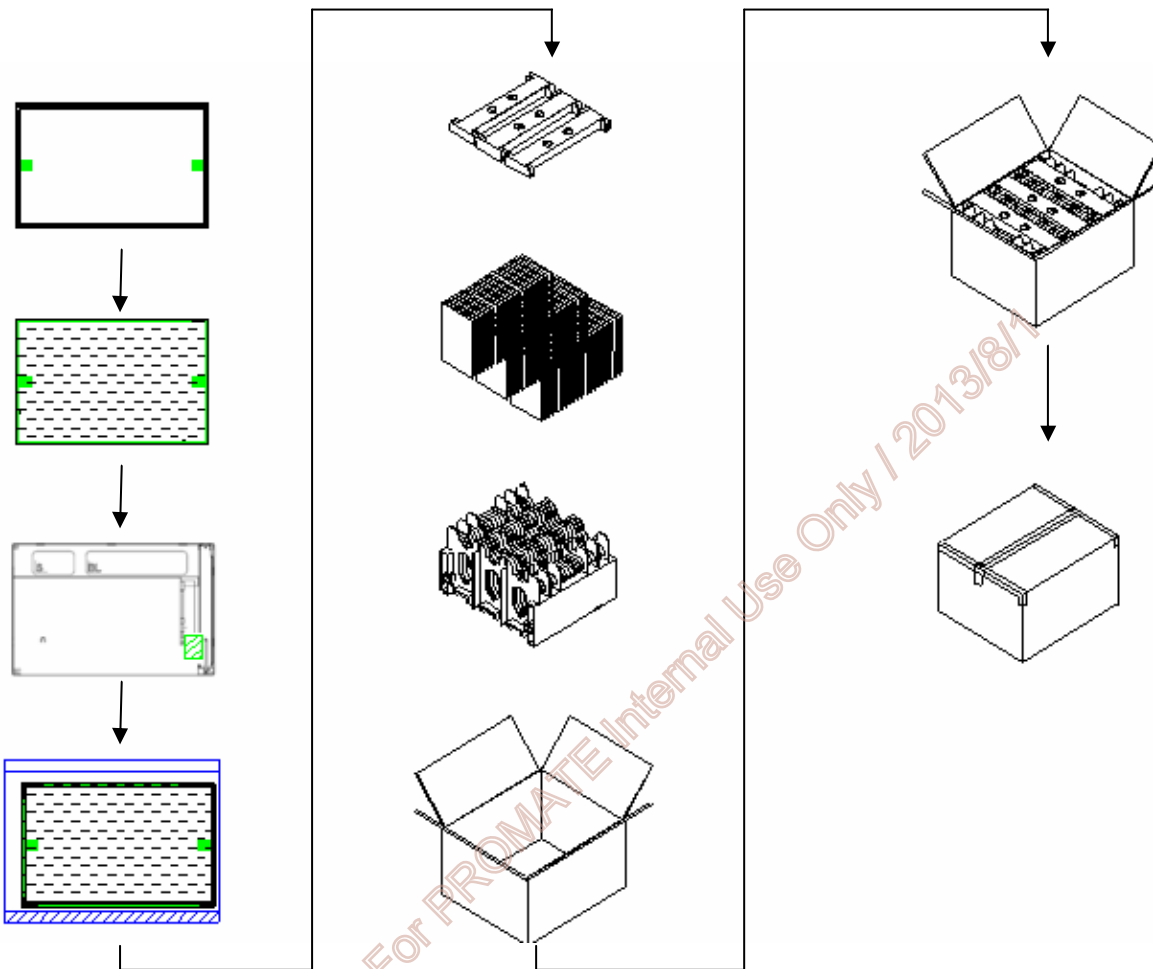
- 1.CN1: I/F CONNCTOR IS MSB24013P20HA (STM) OR AU APPROVED EQUIVALENT
 CN2: LED BLU CONNCTOR IS 3808K-F04N-02R (ENTERY) OR AU APPROVED EQUIVALENT
 CN3: LED LIGHT BAR OUTPUT CONNCTOR IS 3808K-F02N-02R (ENTERY) OR AU APPROVED EQUIVALENT
 CN4: LED LIGHT BAR INPUT CONNCTOR IS H208-P02N-02B (ENTERY) OR AU APPROVED EQUIVALENT

10. Label and Packaging

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



10.2 Carton Package



Note:

1. Max. Capacity: 60pcs LCD Modules / per carton
2. Max. Weight: 14.4 kg / per carton
3. The outside dimension of carton is 434(L) mm x 377(W) mm x 264(H) mm

11 Safety

11.1 Sharp Edge Requirements

There will be no sharp 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 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 pRxINted circuit board will be made from material rated 94-V1 or better. The actual UL flammability rating will be pRxINted on the pRxINted 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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