

AU OPTRONICS CORPORATION

Product Specification

12.1" WXGA Color TFT-LCD Module

Model Name: B121EW01 V3

Approved by	Prepared by

MDBU Marketing Division / AU Optronics corporation

Customer	Checked & Approved by



12.1" WXGA Color TFT-LCD Module Model Name: B121EW01 V.3

(V) Preliminary Specifications
() Final Specifications

Note: This Specification is subject to change without notice.



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Record of Revision

Version and Da	te Page	Old description	New Description	Remark
0.1 2005/05/31	All	First Edition for Customer		

1. Handling Precautions

- 1) Since front polarizer is easily damaged, pay attention not to scratch it.
- 2) Be sure to turn off power supply when inserting or disconnecting from input connector.
- 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 other soft cloth.
- 5) Since the panel is made of glass, it may break or crack if dropped or bumped on hard surface.
- 6) Since CMOS LSI is used in this module, take care of static electricity and insure human earth when handling.
- 7) Do not open nor modify the Module Assembly.
- 8) Do not press the reflector sheet at the back of the module to any directions.
- 9) In case if a Module has to be put back into the packing container slot after once it was taken out from the container, do not press the center of the CCFL Reflector edge. Instead, press at the far ends of the CFL 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 momentary. 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)Cold cathode fluorescent lamp in LCD contains a small amount of mercury. Please follow local ordinances or regulations for disposal.
- 13) 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.
- 14) The LCD module is designed so that the CFL in it is supplied by Limited Current Circuit(IEC60950 or UL1950). Do not connect the CFL in Hazardous Voltage Circuit.

2. General Description

B121EW01 V3 is a Color Active Matrix Liquid Crystal Display composed of a TFT LCD panel, a driver circuit, and backlight system. The screen format is intended to support the WXGA (1280(H) x 800(V)) screen and 262k colors (RGB 6-bits data driver). All input signals are LVDS interface compatible. Inverter card of backlight is not included.

B121EW01 V3 is designed for a display unit of notebook style personal computer and industrial machine.

2.1 Display Characteristics

The following items are characteristics summary on the table under 25 $\,^{\circ}\!\mathbb{C}\,$ condition:

Items	Unit	Specifications
Screen Diagonal	[mm]	307.9 (12.1W")
Active Area	[mm]	261.12(H) X 163.2(V)
Pixels H x V		1280x3(RGB) x 800
Pixel Pitch	[mm]	0.204X0.204
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		Normally White
Typical White Luminance (ICFL=6.0mA)	[cd/m ²]	200 typ. (5 points average) 180 min. (5 points average) (Note1)
Luminance Uniformity		1.25 max. (5 points)
Contrast Ratio		400 typ.
Optical Rise Time/Fall Time	[msec]	10/15 typ.
Nominal Input Voltage VDD	[Volt]	+3.3 typ.
Typical Power Consumption	[Watt]	4.5W max.
Weight	[Grams]	285g typ 300g max
Physical Size	[mm]	275.82x 178 x 5.5 max.
Electrical Interface		1 channel LVDS
Surface Treatment		Glare, Harness 2H, Haze 25%, Reflectance 4.3%
Support Color		Native 262K colors (RGB 6-bit data driver)



Temperature Range Operating Storage (Non-Operating)	[°C] [°C]	0 to +50 -40 to +60
RoHS Compliance		RoHS Compliance

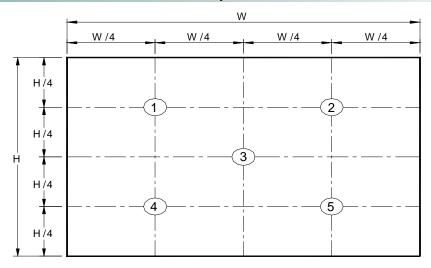
2.2 Optical Characteristics

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

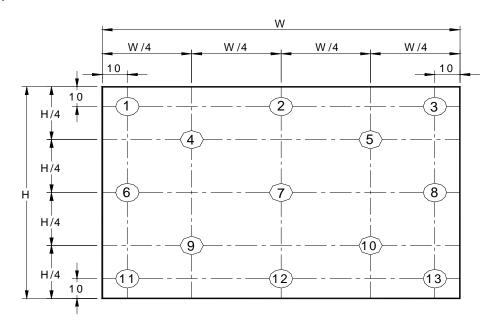
Item	Unit	Condition	าร	Min.	Тур.	Max.	Note
White Luminance CCFL 6.0mA	[cd/m2]	5 points average		180	200	-	1,2,3
Viewing Angle	[degree]		Right)		40	-	2,7
	[degree]	CR = 10	(Left)	ı	40	-	
	[degree]		Jpper)		20	-	
	[degree]	CR = 10 (Lower)		-	40	-	
Uniformity		5 Points				1.25	1
Uniformity		13 Points				1.6	
CR: Contrast Ratio				350	400	-	6
Cross talk	%					4	4
Response Time	[msec]	Rising		-	10	15	5
	[msec]	Falling			15	20	
	[msec]	Raising + Falli	ng		25	35	
Color / Chromaticity		Red x		0.564	0.594	0.624	2,7
Coordinates (CIE 1931)		Red y		0.305	0.335	0.365	
(OIL 1991)		Green x		0.298	0.328	0.358	
		Green y		0.501	0.531	0.561	
		Blue x		0.122	0.152	0.182	
		Blue y		0.113	0.143	0.173	
		White x		0.283	0.313	0.343	
		White y		0.299	0.329	0.359	

Note 1: 5 points position (Display area: 261.12mm x 163.2mm)





Note 2: 13 points position

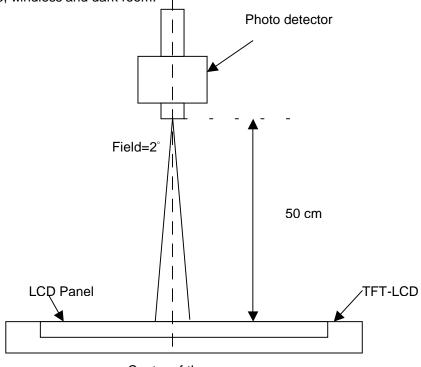


Note 3: The luminance uniformity of 5 and 13 points is defined by dividing the maximum luminance values by the minimum test point luminance

2 _	Maximum Brightness of five points			
δ _{W5} =	Minimum Brightness of five points			
_ 2	Maximum Brightness of thirteen points			
$\delta_{W13} =$	Minimum Brightness of thirteen points			

Note 4: Measurement method

The LCD module should be stabilized at given temperature for 30 minutes to avoid abrupt temperature change during measuring. In order to stabilize the luminance, the measurement should be executed after lighting Backlight for 30 minutes in a stable, windless and dark room.



Center of the screen

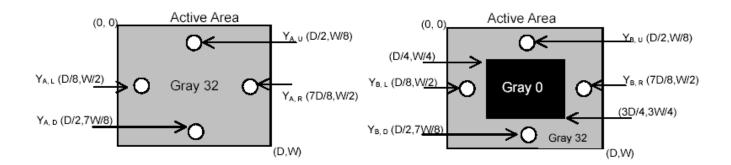
Note 5: Definition of Cross Talk (CT)

$$CT = |Y_B - Y_A| / Y_A \times 100 (\%)$$

Where

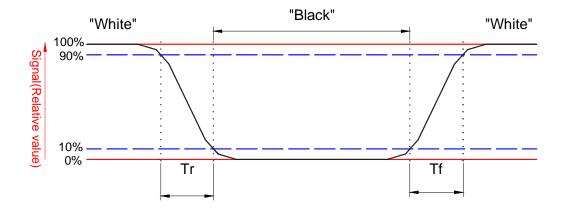
Y_A = Luminance of measured location without gray level 0 pattern (cd/m₂)

Y_B = Luminance of measured location with gray level 0 pattern (cd/m₂)



Note 6: Definition of response time:

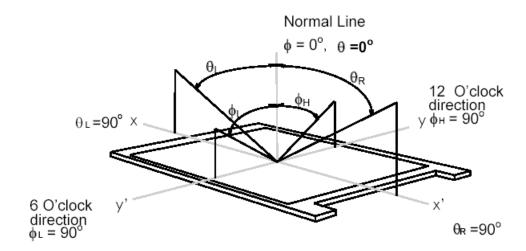
The output signals of BM-7 or equivalent are measured when the input signals are changed from "Black" to "White" (falling time) and from "White" to "Black" (rising time), respectively. The response time interval between the 10% and 90% of amplitudes. Refer to figure as below.





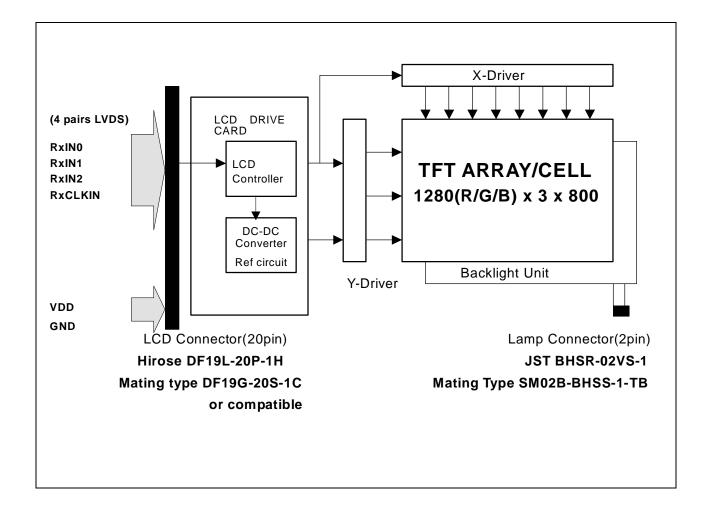
Note 7. Definition of viewing angle

Viewing angle is the measurement of contrast ratio \geq 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 follows; 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 about its center to develop the desired measurement viewing angle.



3. Functional Block Diagram

The following diagram shows the functional block of the 12.1 inches wide Color TFT/LCD Module:





4. Absolute Maximum Ratings

Absolute maximum ratings of the module is as following:

4.1 Absolute Ratings of TFT LCD Module

Item	Symbol	Min	Max	Unit	Conditions
Logic/LCD Drive	Vin	-0.3	+4.0	[Volt]	Note 1,2

4.2 Absolute Ratings of Backlight Unit

Item	Symbol	Min	Max	Unit	Conditions
CCFL Current	ICFL	-	7	[mA] rms	Note 1,2

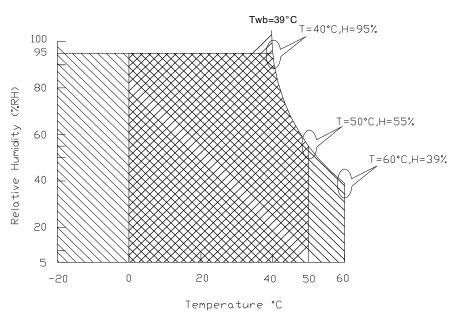
4.3 Absolute Ratings of Environment

Item	Symbol	Min	Max	Unit	Conditions
Operating Temperature	TOP	0	+50	[°C]	Note 3
Operation Humidity	HOP	5	95	[%RH]	Note 3
Storage Temperature	TST	-40	+60	[°C]	Note 3
Storage Humidity	HST	5	95	[%RH]	Note 3

Note 1: With in Ta (25°C)

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

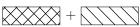
Note 3: For quality perfermance, please refer to AUO IIS(Incoming Inspection Standard).



Operating Range



Storage Range



5. Electrical characteristics

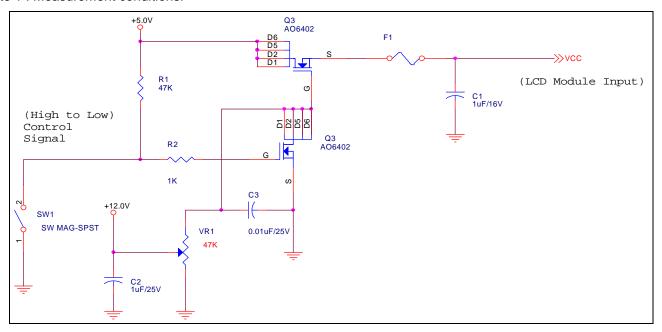
5.1 TFT LCD Module

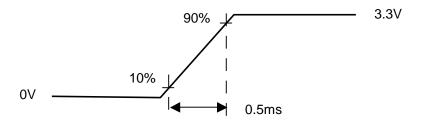
5.1.1 Power Specification

Input power specifications are as follows;

Symble	Parameter	Min	Тур	Max	Units	Condition
VDD	Logic/LCD Drive	3.0	3.3	3.6	[Volt]	Load Capacitance
	Voltage					20uF
PDD	VDD Power		1.0		[Watt	Max:All Black Pattern
IDD	IDD Current		400	420	mA	Max:All Black Pattern
IRush	Inrush Current			1800	mA	
VDDrp	Allowable			500	[mV]	
	Logic/LCD Drive				р-р	
	Ripple Voltage					
VDDns	Allowable			100	[mV]	
	Logic/LCD Drive				р-р	
	Ripple Noise					

Note 1: Measurement conditions:







5.1.2 Signal Electrical Characteristics

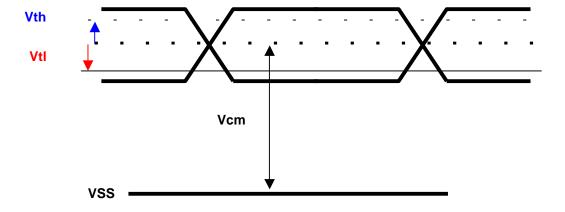
Input signals shall be low or Hi-Z state when VDD is off.

It is recommended to refer the specifications of SN75LVDS86DGG(Texas Instruments) in detail.

Signal electrical characteristics are as follows;

Parameter	Condition	Min	Max	Unit
Vth	Differential Input High Threshold (Vcm=+1.2V)		100	[mV]
VtI	Differential Input Low Threshold (Vcm=+1.2V)	-100		[mV]

Note: LVDS Signal Waveform



5.2 Backlight Unit

Parameter guideline for CCFL Inverter

Parameter	Min	Тур	Max	Units	Condition
White Luminance 5 points average	180	200	-	[cd/m ²]	(Ta=25°€)
CCFL current(ICFL)	5.5	6.0	6.5	[mA] rms	(Ta=25°ℂ) Note 2
CCFL Frequency(FCFL)	50	60	70	[KHz]	(Ta=25°ℂ) Note 3,4
CCFL Ignition Voltage(Vs)	1400	-	-	[Volt] rms	(Ta= 0°C) Note 5
CCFL Voltage (Reference) (VCFL)	-	580	-	[Volt] rms	(Ta=25°C) Note 6
CCFL Power consumption (PCFL)	-	3.5	-	[Watt]	(Ta=25°C) Note 6

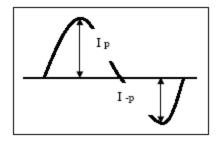
Note 1: Typ are AUO recommended Design Points.

- *1 All of characteristics listed are measured under the condition using the AUO Test inverter.
- *2 In case of using an inverter other than listed, it is recommended to check the inverter carefully. Sometimes, interfering noise stripes appear on the screen, and substandard luminance or flicker at low power may happen.
- *3 In designing an inverter, it is suggested to check safety circuit very carefully. Impedance of CFL, for instance, becomes more than 1 [M ohm] when CFL is damaged.
- *4 Generally, CFL has some amount of delay time after applying kick-off voltage. It is recommended to keep on applying kick-off voltage for 1 [Sec] until discharge.
- *5 CFL discharge frequency must be carefully chosen so as not to produce interfering noise stripes on the screen.
- *6 Reducing CFL current increases CFL discharge voltage and generally increases CFL discharge frequency. So all the parameters of an inverter should be carefully designed so as not to produce too much leakage current from high-voltage output of the inverter.
- Note 2: It should be employed the inverter which has "Duty Dimming", if ICFL is less than 4mA.
- Note 3: CFL discharge frequency should be carefully determined to avoid interference between inverter and TFT LCD.
- Note 4: The frequency range will not affect to lamp life and reliability characteristics.
- Note 5: CFL inverter should be able to give out a power that has a generating capacity of over 1,430 voltage. Lamp units need 1,400 voltage minimum for ignition.
- Note 6: Calculator value for reference (ICFL×VCFL=PCFL)



- Note 7: Requirements for a system inverter design, which is intended to have a better display performance, a better power efficiency and a more reliable lamp, are following.

 It shall help increase the lamp lifetime and reduce leakage current.
- a. The asymmetry rate of the inverter waveform should be less than 10%.
- b. The distortion rate of the waveform should be within $\sqrt{2} \pm 10\%$.
- * Inverter output waveform had better be more similar to ideal sine wave.





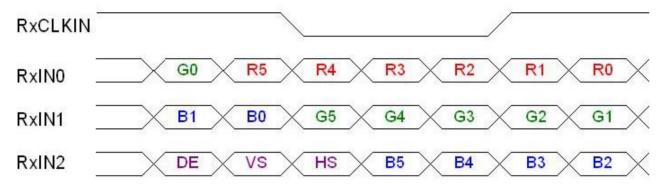
6. Signal Characteristic

6.1 Pixel Format Image

Following figure shows the relationship of the input signals and LCD pixel format.

		0			1			1:	27	9	12	28	0
1st Line	R	G	В	R	G	В		R	G	В	R	G	В
		,											
		,											
		,											
		•					•		•				
		,											
		ı			1		•		1			ı	
800th Line	R	G	В	R	G	В		R	G	В	R	G	В

6.2 The input data format



Cianal Name	Dogorintian	
Signal Name	Description (MOD)	Ded vivel Dete
RED5	Red Data 5 (MSB)	Red-pixel Data
RED4	Red Data 4	Each red pixel's brightness data consists of
RED3	Red Data 3	these 6 bits pixel data.
RED2	Red Data 2	
RED1	Red Data 1	
RED0	Red Data 0 (LSB)	
	Dad sivel Data	
	Red-pixel Data	
GREEN 5	Green Data 5 (MSB)	Green-pixel Data
GREEN 4	Green Data 4	Each green pixel's brightness data consists of
GREEN 3	Green Data 3	these 6 bits pixel data.
GREEN 2	Green Data 2	
GREEN 1	Green Data 1	
GREEN 0	Green Data 0 (LSB)	
	_	
	Green-pixel Data	
BLUE 5	Blue Data 5 (MSB)	Blue-pixel Data
BLUE 4	Blue Data 4	Each blue pixel's brightness data consists of
BLUE 3	Blue Data 3	these 6 bits pixel data.
BLUE 2	Blue Data 2	
BLUE 1	Blue Data 1	
BLUE 0	Blue Data 0 (LSB)	
	Blue-pixel Data	
DTCLK	Data Clock	The typical frequency is 68.9 MHZ The signal
		is used to strobe the pixel data and DSPTMG
		signals. All pixel data shall be valid at the falling
		edge when the DSPTMG signal is high.
DSPTMG	Display Timing	This signal is strobed at the falling edge of
		-DTCLK. When the signal is high, the pixel data
		shall be valid to be displayed.
VSYNC	Vertical Sync	The signal is synchronized to -DTCLK.
HSYNC	Horizontal Sync	The signal is synchronized to -DTCLK.

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

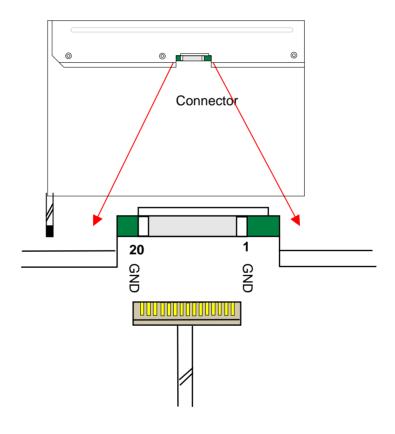
6.3 Signal Description

The LVDS receiver equipped in this LCD module is compatible with SN75LVDS86 standard. LVDS is a differential signal technology for LCD interface and high speed data transfer device. Transmitter shall be SN75LVDS84 (negative edge sampling) or compatible.

Signal Name	Description
RxIN0N, RxIN0P	LVDS differential data input (Red0-Red5, Green0)
RxIN1N, RxIN1P	LVDS differential data input (Green1-Green5, Blue0-Blue1)
RxIN2N, RxIN2P	LVDS differential data input (Blue2-Blue5, Hsync, Vsync, DSPTMG)
RxCLKINN, RxCLKIN0P	LVDS differential clock input
VDD	+3.3V Power Supply
GND	Ground

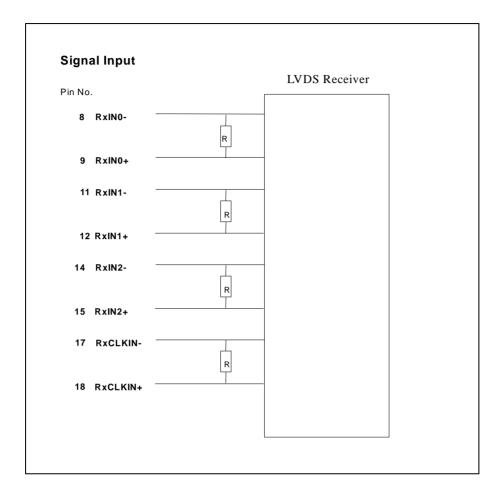
Note1: Start from right side Note2: Please follow VESA.

Note3: Input signals shall be low or Hi-Z state when VDD is off. Internal circuit of LVDS inputs are as following.





The module uses a 100ohm resistor between positive and negative data lines of each receiver input



6.4 Interface Timing

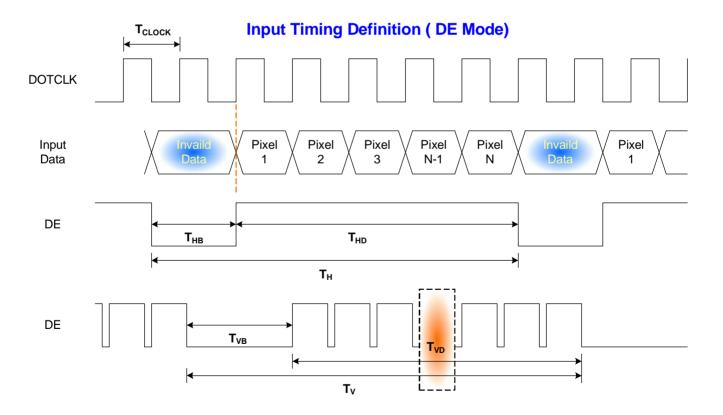
6.4.1 Timing Characteristics

Basically, interface timings should match the 1280x800 /60Hz manufacturing guide line timing.

Parameter		Symbol	Min.	Тур.	Max.	Unit
Frame Rate		-	50	60	-	Hz
Clock from	equency	1/ T _{Clock}	62	68.9	72	MHz
	Period	T _V	803	816	832	
Vertical	Active	T_VD	800	800	800	T_{Line}
Section	Blanking	T _{VB}	3	16	32	
	Period	T _H	1302	1408	1700	
Horizontal	Active	T _{HD}	-	1280	-	T_{Clock}
Section	Blanking	T _{HB}	22	128	420	
End-frame checking period		tEF		2		T_{Line}
	ing period	tDE		6400		T _{Line}

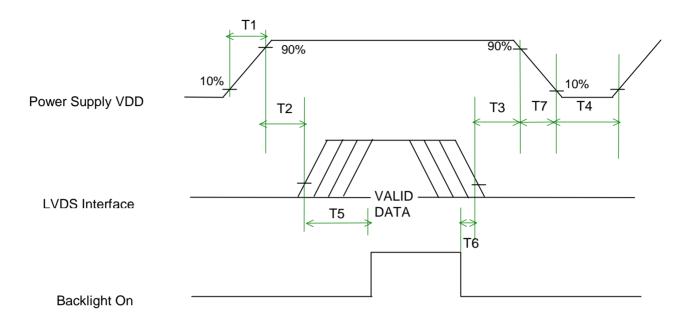
Note : DE mode only

6.4.2 Timing diagram



6.5 Power ON/OFF Sequence

VDD power and lamp on/off sequence is as follows. 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 Sequence Timing

		Value		
Parameter	Min.	Тур.	Max.	Units
T1	0.5	-	10	(ms)
T2	0	-	50	(ms)
Т3	0	-	50	(ms)
T4	500	-	-	(ms)
T5	200	-	-	(ms)
T6	200	-	-	(ms)
T7	0	-	10	(ms)



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.

Product Specification

7.1 TFT LCD Module

(A) CONNECTOR

Connector Name / Designation	For Signal Connector
Manufacturer	Hirose
Type / Part Number	DF19L-20P-1H
Mating Housing/Part Number	DF19G-20S-1C or compatible

(B) Signal Pin

(-, 0.5	MI I III		
Pin#	Signal Name	Pin#	Signal Name
1	GND	2	VDD
3	VDD	4	VDD_{EDID}
5	AGING	6	CLK _{EDID}
7	DATA _{EDID}	8	RxIN0N
9	RxIN0P	10	GND
11	RxIN1N	12	RxIN1P
13	GND	14	RxIN2N
15	RxIN2P	16	GND
17	RxCLKINN	18	RxCLKINP
19	GND	20	GND



7.2 Backlight Unit

Physical interface is described as for the connector on module.

These connectors are capable of accommodating the following signals and will be following components.

Connector Name / Designation	For Lamp Connector
Manufacturer	JST
Type / Part Number	BHSR-02VS-1
Mating Type / Part Number	SM02B-BHSS-1-TB

7.3 Signal for Lamp connector

Pin#	Cable color	Signal Name
1	Red	Lamp High Voltage
2	White	Lamp Low Voltage



8. Vibration and Shock Test

8.1 Vibration Test

Test Spec:

I Test method: Non-Operation

I Acceleration: 1.5G

I Frequency: 26 - 500Hz Random

I Sweep: 30 Minutes each Axis (X, Y, Z)

8.2 Shock Test Spec:

Test Spec:

I Test method: Non-Operation

I Acceleration: 220 G , Half sine wave

I Active time: 2 ms

I Pulse: X,Y,Z .one time for each side



9. Reliability

Items	Required Condition	Note
Temperature Humidity Bias	40℃/95%,250Hr	
High Temperature Operation	50℃/Dry,250Hr	
Low Temperature Operation	0°C,250Hr	
On/Off Test	ON/30 sec. OFF/30sec., 30,000 cycles.	
Hot Storage	65℃/20% RH ,250 hours	
Cold Storage	-40℃/50% RH ,250 hours	
Thermal Shock Test	-40°C/20 min ,65°C/20 min 300cycles	
Hot Start Test	50°C/1 Hr min. power on/off per 5 minutes, 5 times	
Cold Start Test	0°C/1 Hr min. power on/off per 5 minutes, 5 times	
Shock Test (Non-Operating)	220G, 2ms, Half-sine wave	
Vibration Test (Non-Operating)	Random vibration, 1.5 G zero-to-peak, 26 to 500 Hz, 30 mins in each of three mutually perpendicular axes.	
ESD	Contact: ±8KV/ operation Air: ±15KV / operation	Note 1
Room temperature Test	25°C, 2000hours, Operating with loop pattern	

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

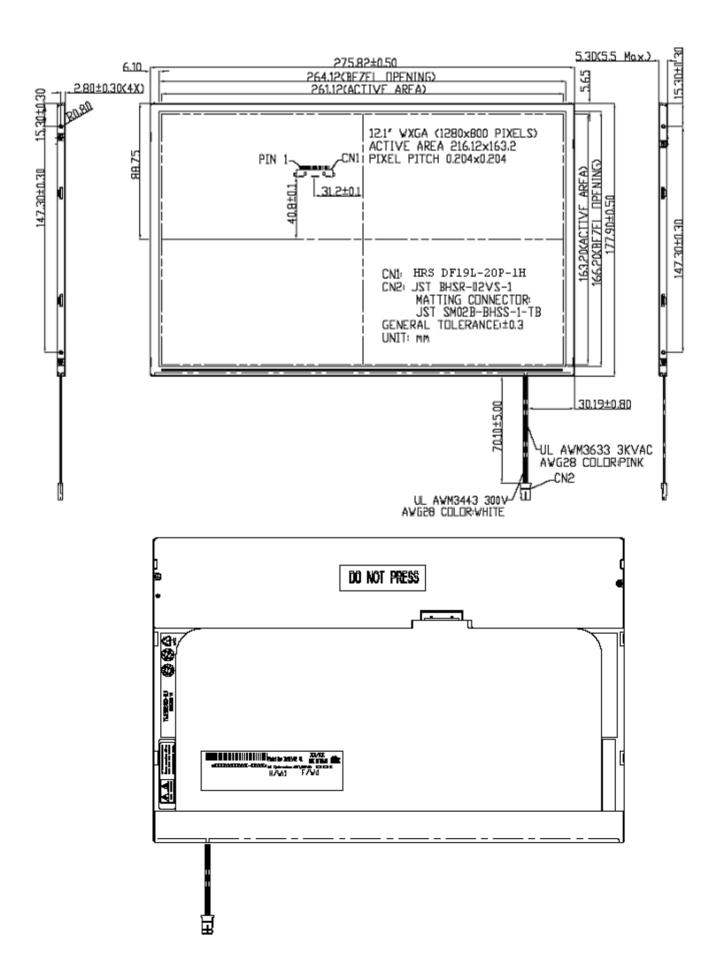
. Self-recoverable. No hardware failures.

Note2: CCFL Life time: 10,000 hours minimum under normal module usage.

Note3: MTBF (Excluding the CCFL): 30,000 hours with a confidence level 90%

10. Mechanical Characteristics

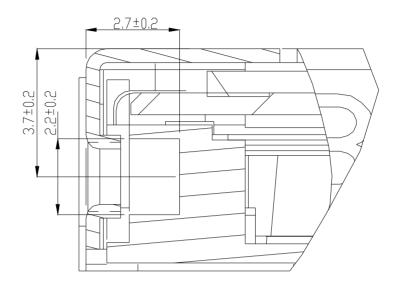
10.1 LCM Outline Dimension



10.2 Screw Hole Depth and Center Position

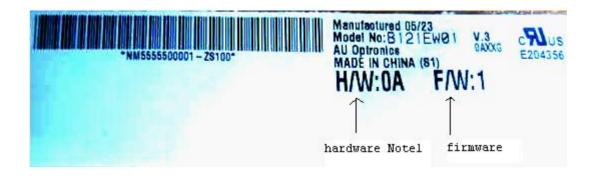
Screw hole minimum depth, from side surface =2.5 mm (See drawing)

Screw hole center location, from front surface = 3.7 \pm 0.2mm (See drawing) Screw Torque: Maximum 2.5 kgf-cm



11. Shipping and Package

11.1 Shipping Label Format

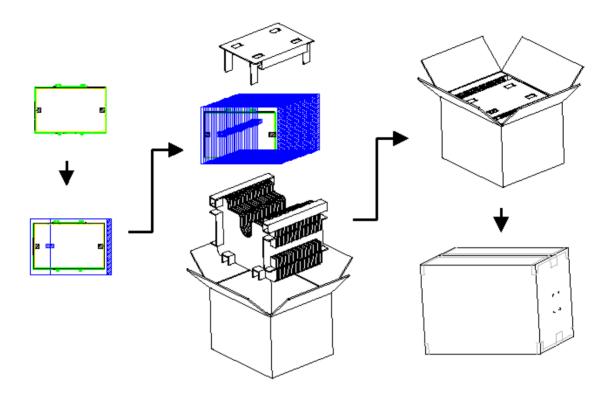


Note 1:

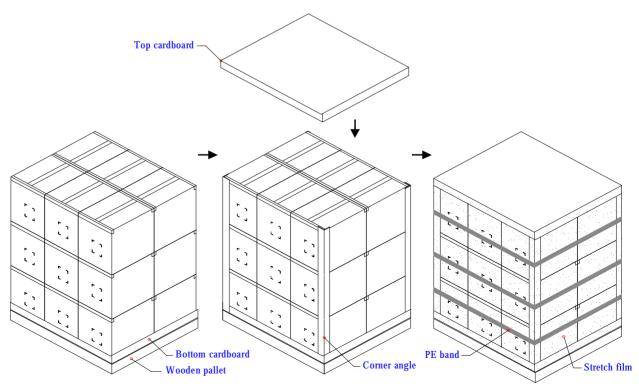
IC Combination	Control Code	H/W		
Source IC:NT Gate IC: NT	OAXXX	OA		
Source TSB Gate IC: NEC	1AXXX	1A		

11.2. Carton package

The outside dimension of carton is 486 (L)mm x 286 (W)mm x 360 (H)mm



11.3 Shipping package of palletizing sequence



Note: Limit of box palletizing = Max 3 layers(ship and stock conditions)

12. Appendix: EDID description

	FUNCTION	Value	Value	Value	Notes
HEX		HEX	BIN	DEC	
00	Header	00	00000000	0	
01		FF	11111111	255	
02		FF	11111111	255	
03		FF	11111111	255	
04		FF	11111111	255	
05		FF	11111111	255	
06		FF	11111111	255	
07		00	00000000	0	
08	EISA Manuf. Code LSB	06	00000110	6	
09	Compressed ASCII	AF	10101111	175	
0A	Panel size, resolution	14	00010100	20	Panel size and resolution
0B	Module number, version	13	00010011	19	Model and version number
0C		00	00000000	0	Fixed code
0D		00	00000000	0	Fixed code
0E		00	00000000	0	Fixed code
0F		00	00000000	0	Fixed code
10	Week of manufacture	01	00000001	1	Week 01
11	Year of manufacture	0F	00001111	15	15(2005-1990=15)
12	EDID Structure Ver.	01	00000001	1	
13	EDID revision #	03	00000011	3	- 1.1.1.1
14	Video input definition	80	10000000	128	Digital Input
15 16	Max H image size Max V image size	1A 10	00011010	26 16	26.112cm 16.32cm
17	Display Gamma	78	01111000	120	Gamma 2.2
18	Feature support	0A	00001010	10	no DPMS,Active off,RGB color
19	Red/Green low bits	30	00110000	48	
1A	Blue/White low bits	25	00100101	37	
1B	Red x/ high bits	98	10011000	152	Rx=0.594
1C	Red y	55	01010101	85	Ry=0.335
1D	Green x	54	01010100	84	Gx=0.328
1E	Green y	88	10001000	136	Gy=0.531
1F	Blue x	27	00100111	39	Bx=0.152
20	Blue y	24	00100100	36	By=0.143
21	White x	50	01010000	80	Wx=0.313
22	White y	54	01010100	84	Wy=0.329

23	Established timing 1	00	00000000	0	unused
24	Established timing 2	00	00000000	0	
25	Manufacturer's Timing	00	00000000	0	-
26	Standard timing #1	01	00000001	1	unused
27		01	00000001	1	
28	Standard timing #2	01	00000001	1	
29		01	00000001	1	
2A	Standard timing #3	01	00000001	1	
2B		01	00000001	1	
2C	Standard timing #4	01	00000001	1	
2D		01	00000001	1	
2E	Standard timing #5	01	00000001	1	
2F		01	00000001	1	
30	Standard timing #6	01	00000001	1	
31		01	00000001	1	
32	Standard timing #7	01	00000001	1	
33		01	00000001	1	
34	Standard timing #8	01	00000001	1	
35		01	00000001	1	
36	Pixel Clock/10,000 (LSB)	EA	11101010	234	Timing Descriptor #1
37	Pixel Clock/10,000 (MSB)	1A	00011010	26	1280x800 @60_mode:pixel clock=68.9MHz
38	Horiz. Active pixels(Lower 8 bits)	00	00000000	0	Horiz active=1280 pixels
39	Horiz.Blanking (Lower 8 bits)	80	10000000	128	Horiz blanking=128 pixels
	Horiz. Active pixels:Horiz. Blanking	50			
3A	(Upper4:4 bits)		01010000	80	
3B		20	00100000	32	Vertcal active=800 lines
3C		10	00010000	16	Vertical blanking=16 lines
	Vert. Active pixels:Vert. Blanking	30	00110000	40	
3D	(Upper4:4 bits)	45	00040404	48	Haris anna Officet Officials
3E 3F		15 20	00010101	21 32	Horiz sync. Offset=21 pixels
35	Vert. Sync. Offset=xx lines, Sync	20	00100000	32	Horiz sync. Pulse Width=32 pixels
40	Width=xx lines	44	01000100	68	Verti sync. Offset=4 lines,Sync Width=4 lines
41	Horz. Ver. Sync/Width (upper 2 bits)	00	00000000	0	
42	Hori. Image size (Lower 8 bits)	05	00000101	5	Hori image size = 261.12 mm
43	Vert. Image size (Lower 8 bits)	А3	10100011	163	Verti image size = 163.2mm
	Hori. Image size : Vert. Image size				
44	(Upper 4 bits)	10	00010000	16	
45		00	00000000	0	Horizontal Border = 0
46		00	00000000	0	Vertical Border = 0
47		18	00011000	24	
		Docu	ument version	0.1	33/35

48	Detailed timing/monitor	00	00000000	0	
49	descriptor #2	00	00000000	0	
49 4A	descriptor #2	00	00000000	0	
4A 4B		0F	00000000		
				15	
4C		00	00000000	0	
4D		00	00000000	0	
4E		00	00000000	0	
4F		00	00000000	0	
50		00	00000000	0	
51		00	00000000	0	
52		00	00000000	0	
53		00	00000000	0	
54		00	00000000	0	
55		00	00000000	0	
56		00	00000000	0	
57		00	00000000	0	
58		00	00000000	0	
59		20	00100000	32	
5A	Flag	00	00000000	0	Ascii Data String:AUO
5B	Flag	00	00000000	0	
5C	Flag	00	00000000	0	
5D		FE	11111110	254	
5E		00	00000000	0	
5F	LCD Vendor	41	01000001	65	А
60	LCD Vendor	55	01010101	85	U
61	LCD Vendor	4F	01001111	79	О
62		0A	00001010	10	
63		20	00100000	32	
64		20	00100000	32	
65		20	00100000	32	
66		20	00100000	32	
67		20	00100000	32	
68		20	00100000	32	
69		20	00100000	32	
6A		20	00100000	32	
6B		20	00100000	32	
6C	Flag	00	00000000	0	Monitor Name : B121EW01 V3
6D	Flag	00	00000000	0	
6E	Flag	00	00000000	0	
6F	Data type tag:ASCII string	FE	11111110		
ן סר	Data type tag:ASCII string	l LE	[11111110]	2 54	I

70	Flag	00	00000000	0	
71	Manufacturer P/N	42	01000010	66	В
72	Manufacturer P/N	31	00110001	49	1
73	Manufacturer P/N	32	00110010	50	2
74	Manufacturer P/N	31	00110001	49	1
75	Manufacturer P/N	45	01000101	69	E
76	Manufacturer P/N	57	01010111	87	W
77	Manufacturer P/N	30	00110000	48	0
78	Manufacturer P/N	31	00110001	49	1
79		20	00100000	32	
7A	Manufacturer P/N	56	01010110	86	V
7B	Manufacturer P/N	33	00110011	51	3
7C		20	00100000	32	
7D		0A	00001010	10	
7E	Extension Flag	00	00000000	0	
7F	Checksum	70	01110000	112	
5632					