

- (V) Preliminary Specifications() Final Specifications

Module	10.1"(10.07") WXGA 16:10 Color TFT-LCD with LED Backlight design			
Model Name	B101EW05 V110 (HW: 0A)			
Note	LED Backlight with driving circuit design ✓ Color Management (Virtual and Rich Color Solution) ✓ Dynamic Contrast Ratio (Power Saving Solution)			

Customer	Date
Checked & Approved by	Date
Note: This Specification i without notice.	s subject to change

Approved by	Date				
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Record of Revision

Ver	sion and Date	Page		Old description	New Description	Remark
0.1	2011/01/25	All	First	Edition for Customer		



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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.
- 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 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) 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) 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) Disconnecting power supply before handling LCD modules, it can prevent electric shock, DO NOT TOUCH the electrode parts, cables, connectors and LED circuit part of TFT module that a LED light bar build in as a light source of back light unit. It can prevent electrostic breakdown.



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2. General Description

B101EW05 is a Color Active Matrix Liquid Crystal Display composed of a TFT LCD panel, a driver circuit, and LED backlight system. The screen format is intended to support the 16:10 WXGA, 1280(H) x800(V) screen and 262k colors (RGB 6-bits data driver) with LED backlight driving circuit. All input signals are LVDS interface compatible.

B101EW05 is designed for a display unit of notebook style personal computer and industrial machine.

2.1 General Specification

Items	Unit	Specifications				
Screen Diagonal	[mm]	255.85 (10.07W")				
Active Area	[mm]	216.96(H)	x 135.6(V)			
Pixels H x V		1280 x 3(R	GB) x 800			
Pixel Pitch	[mm]	0.1695 X 0	.1695			
Pixel Format		R.G.B. Ver	tical Stripe			
Display Mode		Normally B	lack			
White Luminance (ILED=21mA) (Note: ILED is LED current)	[cd/m ²]	350 typ. (5 points average) 297 min. (5 points average)				
Luminance Uniformity		1.25 max. ((5 points)			
Contrast Ratio		1300 typ, 1	000 min.			
Response Time	[ms]	25 typ / 35	Max			
Nominal Input Voltage VDD	[Volt]	+3.3 typ.				
Power Consumption	[Watt]	3.4 max. (Ir	nclude Logic	and BLU po	ower)	
Weight	[Grams]	180max				
Physical Size without bracket	[mm]	Length Width Thickness	Min. 228.96 148.6	Typ. 229.46 149.1	Max. 229.95 149.6 5.2	
Electrical Interface		1 channel LVDS				



Glass Thickness	[mm]	0.3
Surface Treatment		Anti-Reflection≤1.5%, Hardness 3H
Support Color		262K colors (RGB 6-bit)
Temperature Range Operating Storage (Non-Operating) RoHS Compliance	[°C] [°C]	0 to +50 -20 to +60 RoHS Compliance

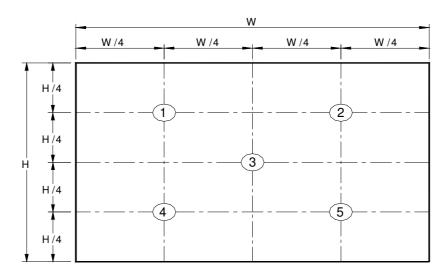
2.2 Optical Characteristics

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

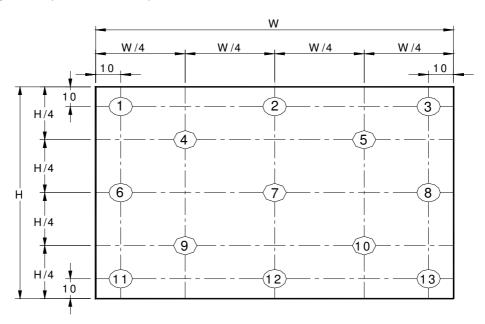
Item	.0.01.00.00	Symbol	Conditions	Min.	Typ.	Max.	Unit	Note
	White Luminance ILED=21mA		5 points average	297	350		cd/m ²	1, 4, 5.
		θ _R θ _L	Horizontal (Right) CR = 10 (Left)	80 80	85 85			
Viewing Ar	ngle	Ψн Ψ∟	Vertical (Upper) CR = 10 (Lower)	80 80	85 85		degree	4, 9
Luminan Uniformi		δ _{5P}	5 Points			1.25		1, 3, 4
Luminan Uniformi		δ _{13P}	13 Points			1.50		2, 3, 4
Contrast R	atio	CR		1000	1300	-		4, 6
Cross ta	lk	%				4		4, 7
Response	Гime	T _{RT}	Rising + Falling		25	35	msec	4, 8
	Red	Rx		0.549	0.579	0.609		
	neu	Ry		0.308	0.338	0.368		
	Green	Gx		0.295	0.325	0.355		
Color / Chromaticity	Green	Gy		0.530	0.560	0.590		
Coordinates	Blue	Вх	CIE 1931	0.132	0.152	0.182		4
	Diue	Ву		0.095	0.125	0.155		
	White	Wx		0.283	0.313	0.343		
	Wille	Wy		0.299	0.329	0.359		
NTSC		%		-	45	-		



Note 1: 5 points position (Ref: Active area)



Note 2: 13 points position (Ref: Active area)



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

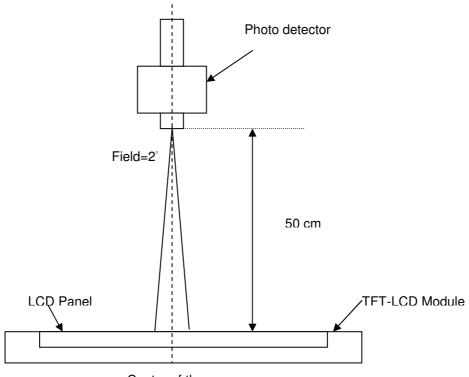
6		Maximum Brightness of five points
δ w5	=	Minimum Brightness of five points
2		Maximum Brightness of thirteen points
δ w13	= `	Minimum Brightness of thirteen points

Note 4: Measurement method



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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, and it should be measured in the center of screen.



Center of the screen

Note 5: Definition of Average Luminance of White (Y_L):

Measure the luminance of gray level 63 at 5 points $Y_L = [L(1) + L(2) + L(3) + L(4) + L(5)] / 5$ L(x) is corresponding to the luminance of the point X at Figure in Note (1).

Note 6: Definition of contrast ratio:

Contrast ratio is calculated with the following formula.

Note 7: Definition of Cross Talk (CT)

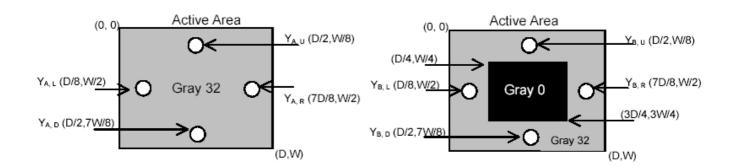
$$CT = | Y_B - Y_A | / Y_A \times 100 (\%)$$

Where

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

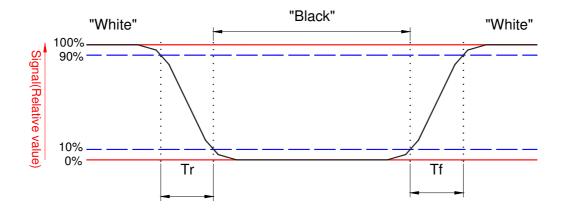
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Y_B = Luminance of measured location with gray level 0 pattern (cd/m₂)



Note 8: 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.

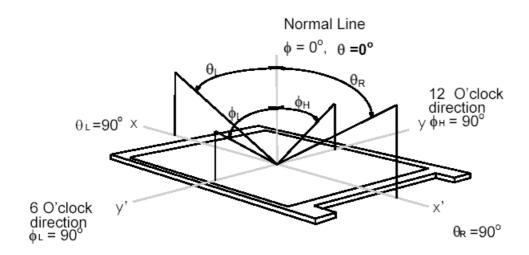




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Note 9. Definition of viewing angle

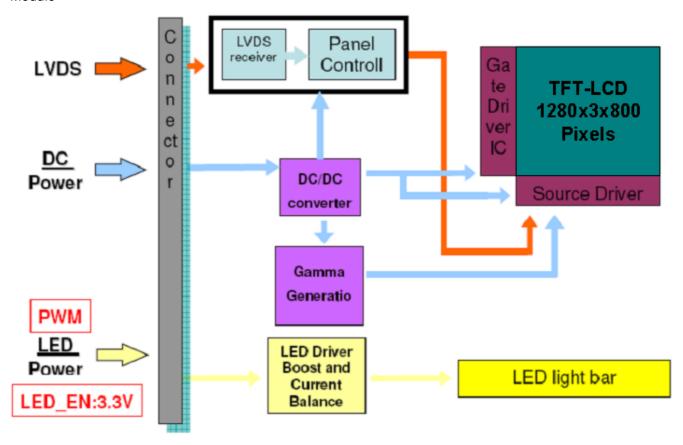
Viewing angle is the measurement of contrast ratio \geq 10, at the screen center, over a 180° horizontal and 180° vertical range (off-normal viewing angles). The 180° viewing angle range is broken down as follows; 90° (θ) horizontal left and right and 90° (Φ) vertical, high (up) and low (down). The measurement 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 10.1 inches wide Color TFT/LCD 40 Pin one channel Module





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4. Absolute Maximum Ratings

An absolute maximum rating of the module is as following:

4.1 Absolute Ratings of TFT LCD Module

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

4.2 Absolute Ratings of Environment

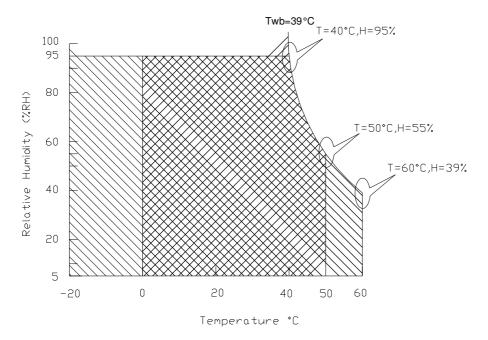
Item	Symbol	Min	Max	Unit	Conditions
Operating Temperature	TOP	0	+50	[°C]	Note 4
Operation Humidity	HOP	5	95	[%RH]	Note 4
Storage Temperature	TST	-20	+60	[°C]	Note 4
Storage Humidity	HST	5	95	[%RH]	Note 4

Note 1: At Ta (25°C)

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

Note 3: LED specification refer to section 5.2

Note 4: For quality performance, 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

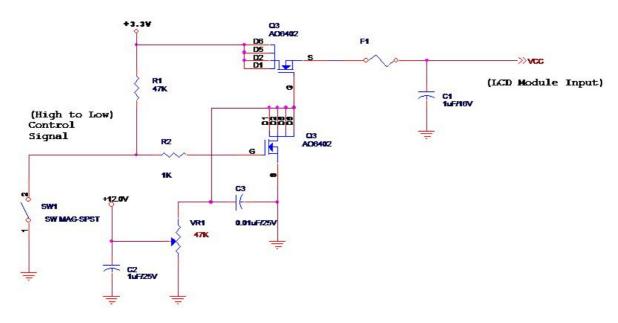
Input power specifications are as follows;

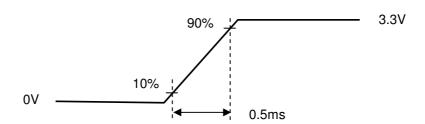
The power specification are measured under 25°C and frame frenquency under 60Hz

Symble	Parameter	Min	Тур	Max	Units	Note
VDD	Logic/LCD Drive Voltage	3.0	3.3	3.6	[Volt]	
PDD	VDD Power	_	-	0.7	[Watt]	Note 1
IDD	IDD Current	-	-	212	[mA]	Note 1
IRush	Inrush Current	-	•	2000	[mA]	Note 2
VDDrp	Allowable Logic/LCD Drive Ripple Voltage	-	-	100	[mV] p-p	

Note 1 : Maximum Measurement Condition : Black Pattern at 3.3V driving voltage. ($P_{max}=V_{3.3} \times I_{black}$)

Note 2: Measure Condition





5.1.2 Signal Electrical Characteristics

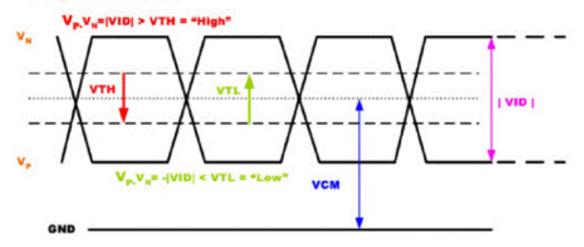
Input signals shall be low or High-impedance state when VDD is off.

Signal electrical characteristics are as follows;

Parameter	Condition	Min	Max	Unit
V _{TH}	Differential Input High Threshold (Vcm=+1.2V)		100	[mV]
V _{TL}	Differential Input Low Threshold (Vcm=+1.2V)	-100		[mV]
V _{ID}	Differential Input Voltage	100	600	[mV]
V _{CM}	Differential Input Common Mode Voltage	1.125	1.375	[V]

Note: LVDS Signal Waveform

Single-end Signal





5.1.3 Dynamic contrast ratio Characteristics

Parameter	Symbol	Min	Тур	Max	Units	Remark	
Dynamic contrast ratio(DCR) Input High Level		2.5	-	5.5	[Volt]	Define as Connector	
Dynamic contrast ratio(DCR) Input Low Level	DCR_EN	-	-	0.8	[Volt]	Interface (Ta=25°C)	
DCR Mode Duty Index	Duty	70	-	100	%	Note 1	
L0 Gray level	Power	-	0.7P	-	Watt		
L63 Gray level	Power	-	1P	-	Watt	Note 2	

Note 1: The minimums dynamic contrast ratio is setting at darkness, and a maximum is setting at brightness.

Note 2: The power saving capability refer to original Backlight power consumption (P)

5.2 Backlight Unit

5.2.1 LED characteristics

Parameter	Symbol	Min	Тур	Max	Units	Condition
Backlight Power Consumption	PLED	-	-	2.7	[Watt]	(Ta=25°C), Note 1 Vin =12V
LED Life-Time	N/A	15,000	-	-	Hour	(Ta=25°C), Note 2 I _F =19mA

Note 1: Calculator value for reference P_{LED} = VF (Normal Distribution) * IF (Normal Distribution) / Efficiency

Note 2: The LED life-time define as the estimated time to 50% degradation of initial luminous.



5.2.2 Backlight input signal characteristics

Parameter	Symbol	Min	Тур	Max	Units	Remark
LED Power Supply	VLED	5.5	12.0	21.0	[Volt]	
LED Enable Input High Level	VLED EN	2.5	ı	5.5	[Volt]	
LED Enable Input Low Level	VLLD_LIN	-	-	0.8	[Volt]	Define as Connector Interface (Ta=25°C)
PWM Logic Input High Level	\/D\/\/\	2.5	-	5.5	[Volt]	
PWM Logic Input Low Level	VPWM_EN	-	-	0.8	[Volt]	
PWM Input Frequency	FPWM	200	-	20K	Hz	
PWM Duty Ratio	Duty	5		100	%	



6. Signal Interface Characteristic

6.1 Pixel Format Image

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

		1									12	28 0	
1st Line	R	G	В	R	G	В		R	G	В	R	G	В
		•			•		•		•			•	
		•					•					•	
		•			•		'		•			•	
							·						
							·						
							·						
							·						
							·						
		•			•				•			•	
		'			'		'		•			•	
		•					'		•			•	
800th Line	R	G	В	R	G	В	- · · · · · · · · · · · ·	R	G	В	R	G	В



6.2 The Input Data Format

RxCLKIN		/
RxIN0	G0 R5 R4 R3 R2	R1 R0
RxIN1	B1 B0 G5 G4 G3	G2 G1
RxIN2	DE VS HS B5 B4	B3 B2

Cianal Nama	Description	
Signal Name R5	Description Red Data 5 (MSB)	Red-pixel Data
R4	Red Data 4	Each red pixel's brightness data consists of
R3	Red Data 3	these 6 bits pixel data.
R2	Red Data 2	these o bits pixel data.
R1	Red Data 1	
R0	Red Data 0 (LSB)	
	(===)	
	Red-pixel Data	
G5	Green Data 5 (MSB)	Green-pixel Data
G4	Green Data 4	Each green pixel's brightness data consists of
G3	Green Data 3	these 6 bits pixel data.
G2	Green Data 2	
G1	Green Data 1	
G0	Green Data 0 (LSB)	
	Green-pixel Data	
B5	Blue Data 5 (MSB)	Blue-pixel Data
B4	Blue Data 4	Each blue pixel's brightness data consists of
B3	Blue Data 3	these 6 bits pixel data.
B2	Blue Data 2	·
B1	Blue Data 1	
B0	Blue Data 0 (LSB)	
	Blue-pixel Data	
RxCLKIN	Data Clock	The signal is used to strobe the pixel data and
		DE signals. All pixel data shall be valid at the
DE	Diaplay Timing	falling edge when the DE signal is high.
ן טב	Display Timing	This signal is strobed at the falling edge of RxCLKIN. When the signal is high, the pixel
		data shall be valid to be displayed.
VS	Vertical Sync	The signal is synchronized to RxCLKIN.
HS	Horizontal Sync	The signal is synchronized to PixCLKIN.
	1.15.1.25.11d. 0 j.110	o.ga.

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



6.3 Integration Interface Requirement

6.3.1 LVDS Connector Description

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 Signal Connector
Manufacturer	JAE or Compatible
Type / Part Number	JAE HD1S040HA1 or Compatible
Mating Housing/Part Number	IPEX 20453-040T-11or Compatible

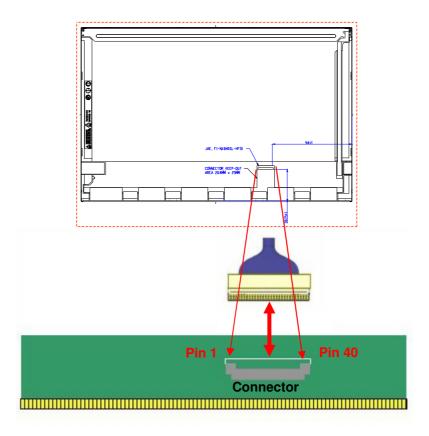
6.3.2 LVDS Pin Assignment

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

PIN#	Signal Name	Description
1	NC	No Connection (Reserve)
2	AVDD	Power Supply +3.3V
3	AVDD	Power Supply +3.3V
4	VEDID	EDID +3.3V Power
5	NC	No Connection (Reserve)
6	CLK_EDID	EDID Clock Input
7	DAT_EDID	EDID Data Input
8	Rin0-	-LVDSdifferential data input(R0-R5,G0)
9	Rin0+	+LVDSdifferential data input(R0-R5,G0)
10	GND	Ground
11	Rin1-	-LVDSdifferential data input(G1-G5,B0-B1)
12	Rin1+	+LVDSdifferential data input(G1-G5,B0-B1)
13	GND	Ground
14	Rin2-	-LVDSdifferential data input(B2-B5,HS,VS,DE)
15	Rin2+	+LVDSdifferential data input(B2-B5,HS,VS,DE)
16	GND	Ground
17	ClkIN-	-LVDSdifferential clock input
18	ClkIN+	+LVDSdifferential clock input
19	GND	Ground-Shield
20	NC	No Connection (Reserve)
21	NC	No Connection (Reserve)
22	GND	Ground-Shield
23	NC	No Connection (Reserve)



24	NC	No Connection (Reserve)
25	GND	Ground-Shield
26	NC	No Connection (Reserve)
27	NC	No Connection (Reserve)
28	GND	Ground-Shield
29	NC	No Connection (Reserve)
30	NC	No Connection (Reserve)
31	VLED_GND	LED Ground
32	VLED_GND	LED Ground
33	VLED_GND	LED Ground
34	NC	No Connection (Reserve)
35	VPWM_EN	System PWM Logic Input Level
36	VLED_EN	LED enable input level
37	DCR_EN	DCR enable input level
38	VLED	LED Power Supply
39	VLED	LED Power Supply
40	VLED	LED Power Supply



Note1: Input signals shall be low or High-impedance state when VDD is off.



6.4 Touch Sensor Signal Description/ Pin Assignment

6.4.1 Touch Sensor Pin Assignment

Pin	Name	Comments	If Unused, Connect to
1	Vcc_5V	5V power	
2	SCL	Serial Interface Clock	Leave open
3	SDA	Serial Interface Data	Leave open
4	CHG	State change interrupt	Leave open
5	GND	Ground	
6	RESET	Reset low	Vcc_3V3, recommend connect to host system
7	DEBUG_DATA	Debug port data	Leave open
8	Enable	Low-Dropout Regulator Control	VCC_3.3 V

6.5 LVDS Interface Timing

6.5.1 Timing Characteristics

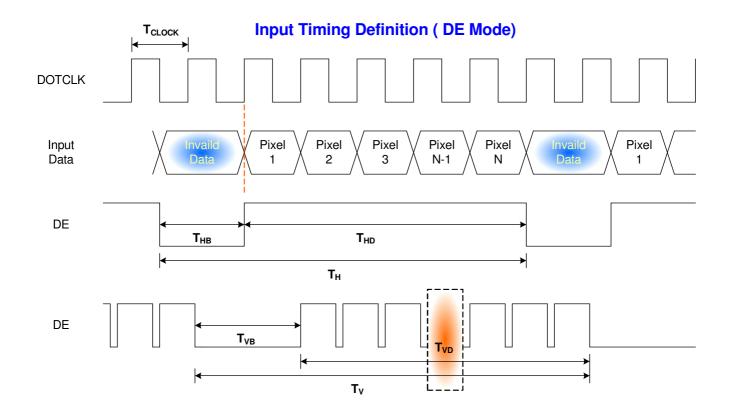
Basically, interface timings should match the 1280x800 /60Hz manufacturing guide line timing.

Parameter		Symbol	Min.	Тур.	Max.	Unit
Frame	e Rate			60		Hz
Clock frequency		1/ T _{Clock}	64	68.93	85	MHz
	Period	T _V	808	816	1023	
Vertical	Active	T _{VD}		800		T_Line
Section	Blanking	T _{VB}	8	16	223	
	Period	T _H	1310	1408	2047	
Horizontal	Active	T _{HD}		1280		T _{Clock}
Section	Blanking	T HB	40	168	767	

Note: DE mode only

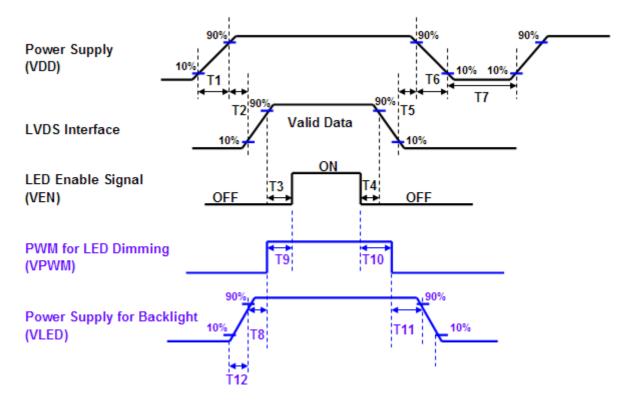


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6.6 Power ON/OFF Sequence

Power on/off sequence is as follows. Interface signals and LED on/off sequence 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.	Max.	Units
T1	0.5	10	
T2	0	50	
Т3	200	-	
T4	200	-	
T5	0	50	
Т6	0	10	ms
Т7	500	-	IIIS
Т8	10	-	
Т9	0	180	
T10	0	180	
T11	10	-	
T12	0.5	10	



7. Reliability Test

Items	Required Condition	
Temperature Humidity Bias	Ta= 40℃, 90%RH, 300h	
High Temperature Operation	Ta= 50℃, Dry, 300h	
Low Temperature Operation	Ta= 0℃, 300h	
High Temperature Storage	Ta= 60℃, 35%RH, 300h	
Low Temperature Storage	Ta= -20℃, 50%RH, 250h	
Thermal Shock Test	Ta=-20°C to 60°C, Duration at 30 min, 100 cycles	
ESD	Contact : ±8 KV	Note 1
⊑ 2D	Air: ±15 KV	

Note1: According to EN 61000-4-2, ESD class B: Some performance degradation allowed. Self-recoverable. No data lost, No hardware failures.

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



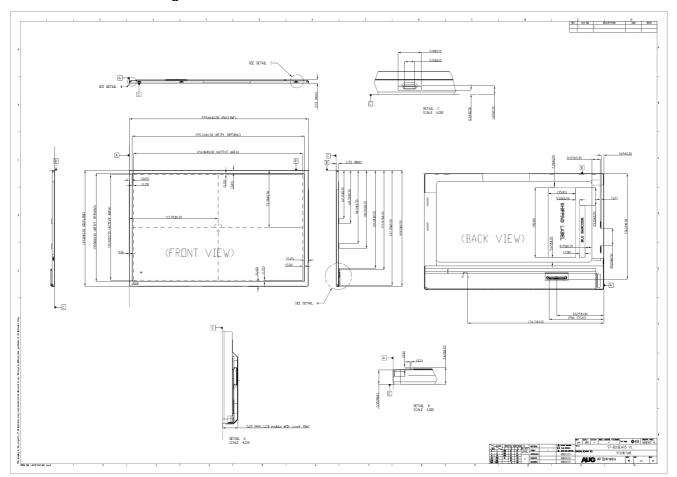
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8. Mechanical Characteristics

8.1 LCM Outline Dimension

8.1.1 Standard Front View & Rear View & Key components remark and remind

Prevention damage the IC, connector, Capacitor...., we recommend your design (Ex: cable, rib, hardness parts) far away those section those have remarked at this drawing.



Note: Prevention IC damage, IC positions not allowed any overlap over these areas.

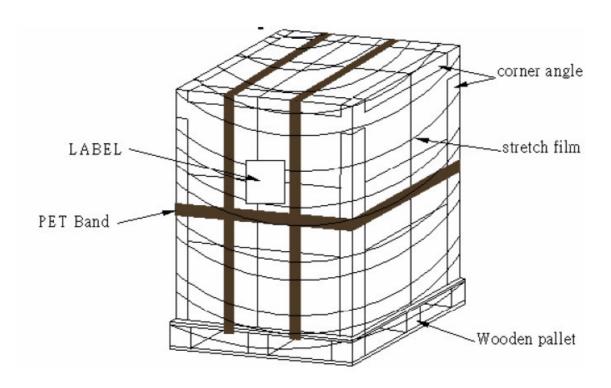
9. Shipping and Package

9.1 Shipping Label Format



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

9.3 Shipping Package of Palletizing Sequence





10.1 EDID Description

B101EW05 V1 EDID Code

Address	FUNCTION	Value
HEX		HEX
00	Header	00
01		FF
02		FF
03		FF
04		FF
05		FF
06		FF
07		00
08	EISA Manuf. Code LSB	06
09	Compressed ASCII	AF
0A	Product Code	D4
0B	hex, LSB first	51
0C	32-bit ser #	00
0D		00
0E		00
0F		00
10	Week of manufacture	00
11	Year of manufacture	14
12	EDID Structure Ver.	01
13	EDID revision #	04
14	Video input def. (digital I/P, non-TMDS, CRGB)	90
15	Max H image size (rounded to cm)	16
16	Max V image size (rounded to cm)	0E
17	Display Gamma (=(gamma*100)-100)	78
18	Feature support (no DPMS, Active OFF, RGB, tmg Blk#1)	02
19	Red/green low bits (Lower 2:2:2:2 bits)	СВ
1 A	Blue/white low bits (Lower 2:2:2:2 bits)	55
1B	Red x (Upper 8 bits)	94
1C	Red y/ highER 8 bits	57
1D	Green x	53
1E	Green y	8E
1F	Blue x	27
20	Blue y	23
21	White x	50
22	White y	54
23	Established timing 1	00



24	Established timing 2	00
25	Established timing 3	00
26	Standard timing #1	01
27	Standard tilling #1	01
28	Standard timing #2	01
29	Standard tilling #2	01
2A	Standard timing #3	01
2B	Standard tilling #3	01
2C	Standard timing #4	01
2D	Standard timing #4	01
2E	Standard timing #5	01
2F	Standard tilling #5	01
30	Standard timing #6	01
31	Standard tilling #0	01
	Standard timing #7	
32	Standard timing #7	01
34	Standard timing #8	01
35	Standard tilling #6	
	Pixel Clock/10000 LSB	01
	Pixel Clock/10000 USB	D0
	Horz active Lower 8bits	1B 00
	Horz blanking Lower 8bits	
	HorzAct:HorzBlnk Upper 4:4 bits	B8
	Vertical Active Lower 8bits	50
3B 3C	Vertical Blanking Lower 8bits	20
3D	Vert Act : Vertical Blanking (upper 4:4 bit)	08
	HorzSync. Offset	30
3E	HorzSync.Width	08
3F	VertSync.Offset : VertSync.Width	0A
40	·	31
	Horz‖ Sync Offset/Width Upper 2bits Horizontal Image Size Lower 8bits	00
42	Vertical Image Size Lower 8bits	D8
43	Horizontal & Vertical Image Size (upper 4:4 bits)	87
44	Horizontal Border (zero for internal LCD)	00
45	Vertical Border (zero for internal LCD)	00
46	Signal (non-intr, norm, no stero, sep sync, neg pol)	00
47		18
48	Detailed timing/monitor	00
49	descriptor #2	00
4A		00
4B		0F
4C		00
4D		00
4E		00



4F		00
0		00
51		00
52		00
53		00
54		00
55		00
56		00
57		00
58		00
59		20
5A	Detailed timing/monitor	00
5B	descriptor #3	00
5C		00
5D		FE
5E		00
5F	Manufacture	41
60	Manufacture	55
61	Manufacture	4F
62		0A
63		20
64		20
65		20
66		20
67		20
68		20
69		20
6A		20
6B		20
6C	Detailed timing/monitor	00
6D	descriptor #4	00
6E		00
6F		FE
70		00
71	Manufacture P/N	42
72	Manufacture P/N	31
73	Manufacture P/N	30
74	Manufacture P/N	31
75	Manufacture P/N	45
76	Manufacture P/N	57
77	Manufacture P/N	30
78	Manufacture P/N	35
79	Manufacture P/N	20
	cument Version : 0.1	



7 A	Manufacture P/N	56
7B	Manufacture P/N	31
7C		20
7D		0A
7E	Extension Flag	00
7F	Checksum	16