Product Specification

AU OPTRONICS CORPORATION

B156XW02 V0

(V) **Preliminary Specifications**
( ) **Final Specifications**

Module	**15.6" HD Color TFT-LCD with LED Backlight design**
Model Name	B156XW02 V0 (H/W:AA)
Note ( )	LED Backlight with driving circuit design

Customer	Date	Approved by	Date
		Kendra Wang	10/21/2008
Checked & Approved by	**Date**	**Prepared by**	
_____	_____	Amy Tu	10/21/2008
Note: This Specification is subject to change without notice.		**NBBU Marketing Division / AU Optronics corporation**	

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Record of Revision

Version and Date	Page	Old description	New Description	Remark
0.1 2008/05/02	All	First Edition for Customer		
0.2 2008/06/16	18,19		Update pin assignment	
0.2 2008/06/16	22		Update clock frequency 72MHzmax; 69.5MHz typ.	
0.2 2008/06/16	29, 30, 31		Update screw hole center location- from front surface 3.1+-0.3mm.	
0.2 2008/06/16	33		Update packing format	
0.2 2008/06/16	34,35,36,37		Update EDID	
0.3 2008/10/21	28		Update screw hole info.	

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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

B156XW02 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 HD (1366(H) x 768(V)) screen and 262k colors (RGB 6-bits data driver) with LED backlight driving circuit. All input signals are LVDS interface compatible.

B156XW02 V0 is designed for a display unit of notebook style personal computer and industrial machine.

2.1 General Specification

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

Items	Unit	Specifications		
Screen Diagonal	[mm]	391 (15.6W")		
Active Area	[mm]	344.2X193.5		
Pixels H x V		1366x3(RGB) x 768		
Pixel Pitch	[mm]	0.252X0.252		
Pixel Format		R.G.B. Vertical Stripe		
Display Mode		Normally White		
White Luminance (**I$_{LED}$=20mA**) (Note: ILED is LED current)	[cd/m$_2$]	220 typ. (5 points average) 187 min. (5 points average)		
Luminance Uniformity		1.25 max. (5 points)		
Contrast Ratio		500 typ		
Response Time	[ms]	8 typ / 16 Max		
Nominal Input Voltage VDD	[Volt]	+3.3 typ.		
Power Consumption	[Watt]	5.6max. (Include Logic and Blu power)		
Weight[Grams] 450 max.				
bracket. Length- Electrical Interface1 channel LVDS	[mm]Min.Physical Size **without inverter,** Width- Thickness-		Typ. - - -	Max. 360 210 5.5
Surface Treatment		Glare, Hardness 3H, Reflection < 5%		
Support Color		262K colors (RGB 6-bit)		

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Temperature Range Operating Storage (Non-Operating)	[^{o}C] [$_{o}$C]	0 to +50 -20 to +60
RoHS Compliance		RoHS Compliance

2.2 Optical Characteristics

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

| Item		Symbol	Conditions	Min.	Typ.	Max.	Unit	Note
White Luminance I$_{LED}$=20mA			5 points average	187	220	-	cd/m$_2$	1, 4, 5.
Viewing Angle		θ$_R$ θ$_L$	Horizontal　　(Right) CR = 10　　(Left)	- -	45 45	- -	degree	4, 9
		ψ$_H$ ψ$_L$	Vertical　　(Upper) CR = 10　　(Lower)	- -	15 35	- -		
Luminance Uniformity		δ$_{5P}$	5 Points	-	-	1.25		1, 3, 4
Luminance Uniformity		δ$_{13P}$	13 Points	-	-	1.65		2, 3, 4
Contrast Ratio		CR		-	500	-		4, 6
Cross talk		%				TBD		4, 7
Response Time		T$_r$	Rising	-	TBD	-	msec	4, 8
		T$_f$	Falling	-	TBD	-		
		T$_{RT}$	Rising + Falling	-	8	16		
Color / Chromaticity Coodinates	Red	Rx	CIE 1931	-	TBD	-		4
		Ry		-	TBD	-		
	Green	Gx		-	TBD	-		
		Gy		-	TBD	-		
	Blue	Bx		-	TBD	-		
		By		-	TBD	-		
	White	Wx		0.263	0.313	0.363		
		Wy		0.279	0.329	0.379		
NTSC		%		-	60	-		

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Note 1: 5 points position (Ref: Active area)
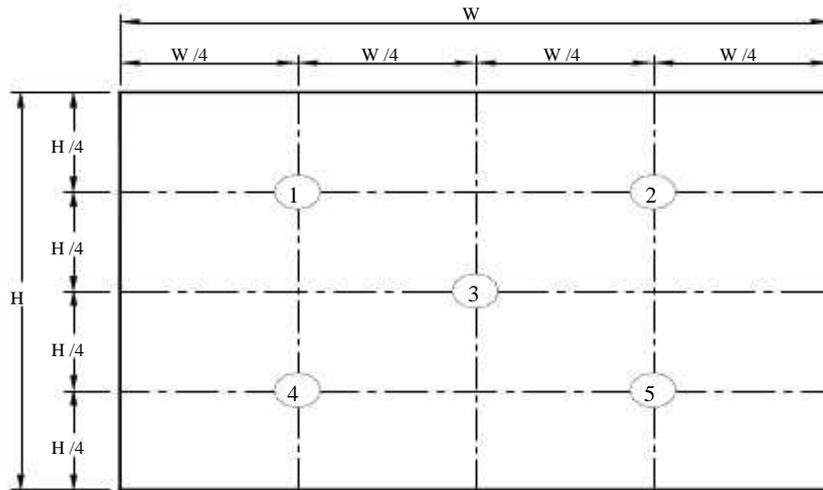
Note 2: 13 points position (Ref: Active area)
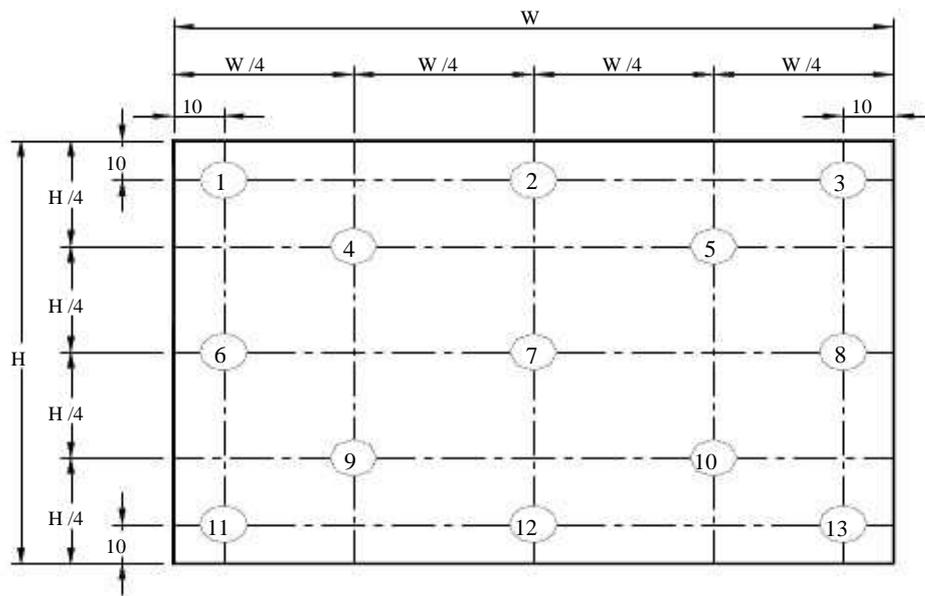
Note 3: The luminance uniformity of 5 or13 points is defined by dividing the maximum luminance values by the minimum test point luminance

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

$$\delta_{W13} = \frac{\text{Maximum Brightness of thirteen points}}{\text{Minimum Brightness of thirteen points}}$$

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

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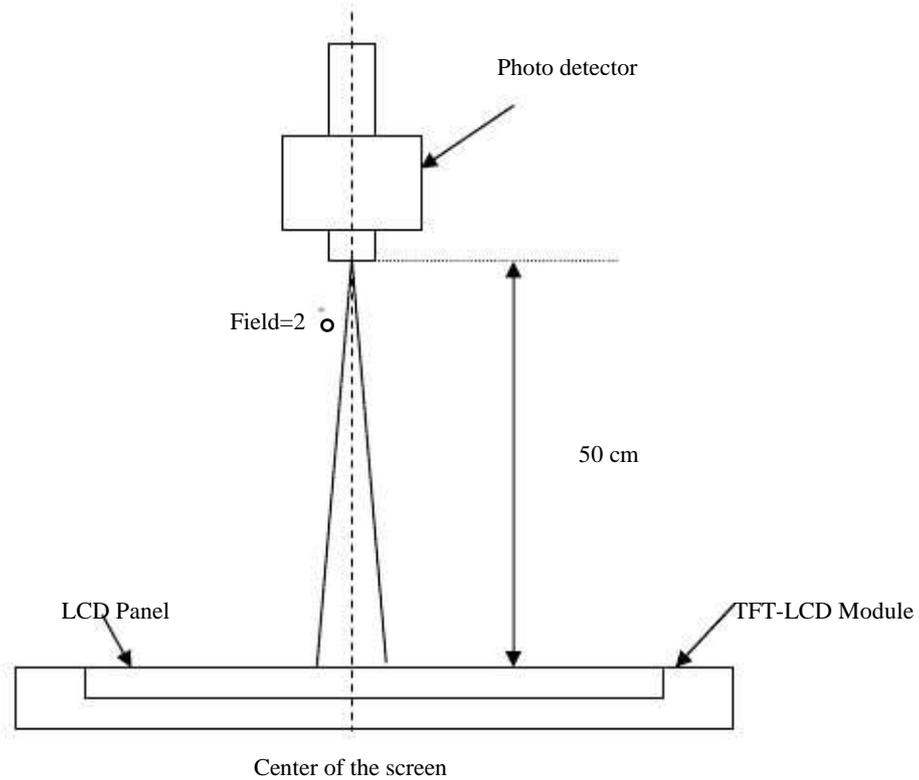
Note 5 : Definition of Average Luminance of White (Y_L):

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.

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

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)

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

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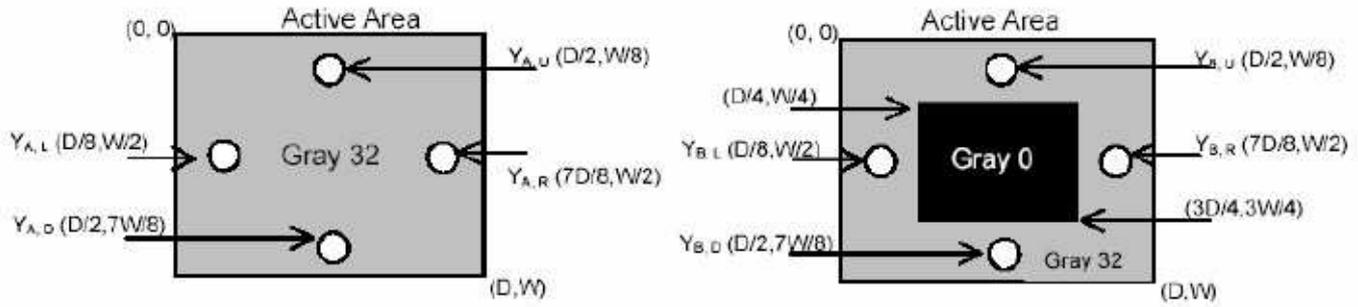
Note 8: Definition of response time:

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.
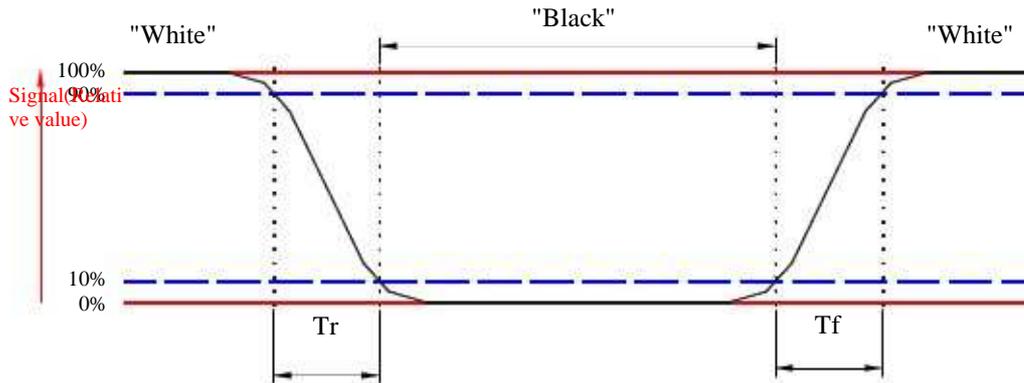
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Note 9. Definition of viewing angle

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.
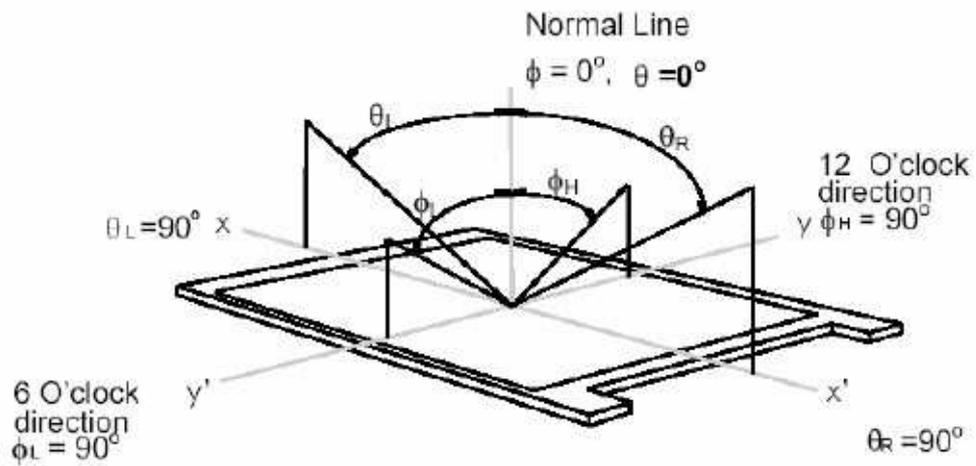
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3. Functional Block Diagram

The following diagram shows the functional block of the 15.6 inches wide Color TFT/LCD 40 Pin (One CH/connector Module)

6 strings, 9 pcs/ string
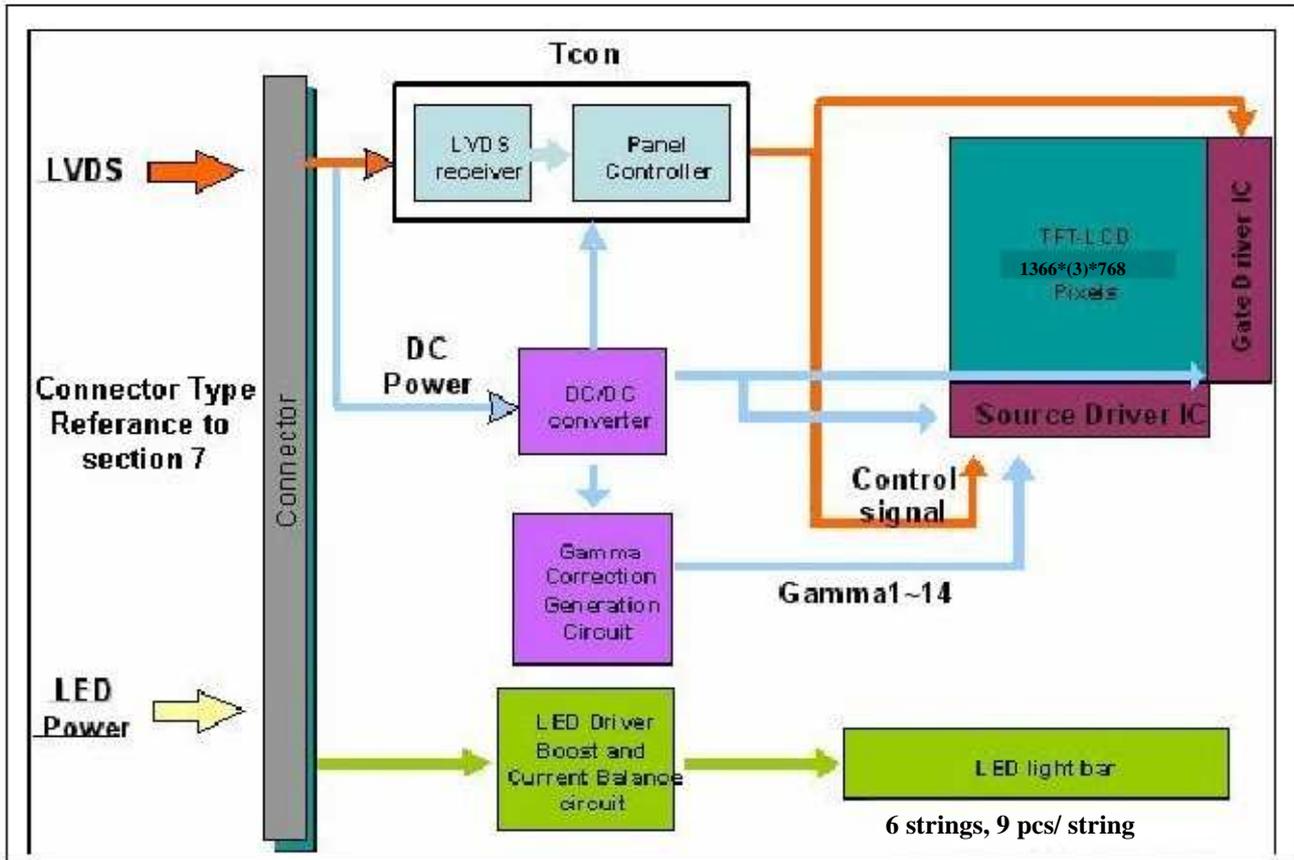
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4. Absolute Maximum Ratings

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	[^{o}C]	Note 4
Operation Humidity	HOP	10	90	[%RH]	Note 4
Storage Temperature	TST	-20	+60	[^{o}C]	Note 4
Storage Humidity	HST	10	90	[%RH]	Note 4

Note 1: At Ta (25 ^{o}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).
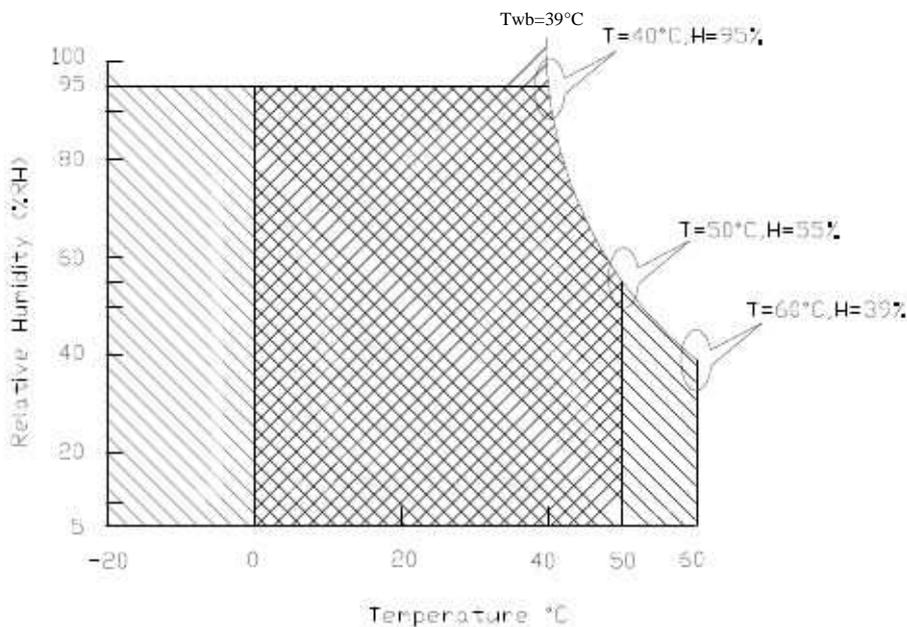
Operating Range [XXXX]   Storage Range [XXXX] + [\\\\]
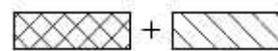
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5. Electrical characteristics

5.1 TFT LCD Module

5.1.1 Power Specification

Input power specifications are as follows;

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

Symble	Parameter	Min	Typ	Max	Units	Note
VDD	Logic/LCD Drive Voltage	3.0	3.3	3.6	[Volt]	
PDD	VDD Power IDD Current	-	-	1.2	[Watt]	Note 1/2
IDD		-	250	400	[mA]	Note 1/2
IRush	Inrush Current	-	-	1500 [mA]		Note 3
VDDrp	Allowable Logic/LCD Drive Ripple Voltage	-	-	100	[mV] p-p	

Note 1 : Maximum Measurement Condition : Black Pattern

Note 2 : Typical Measurement Condition: Mosaic Pattern

Note 3 : Measure Condition
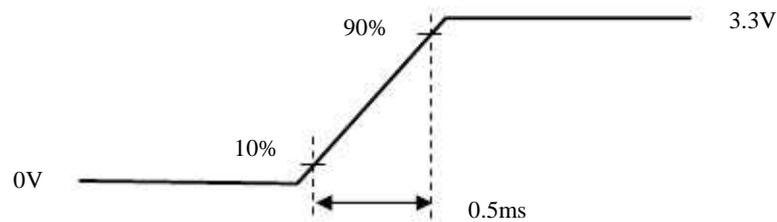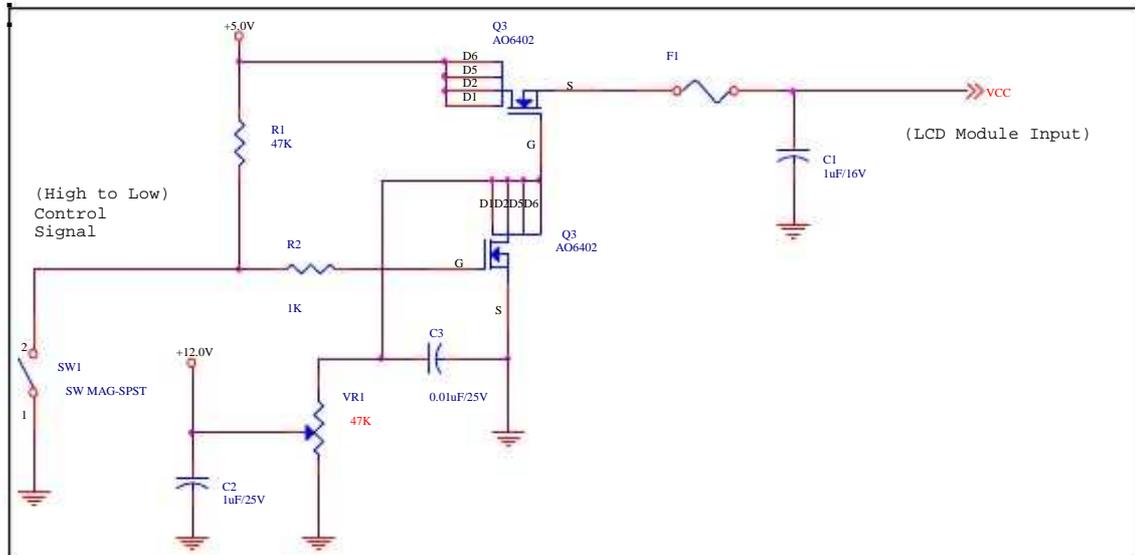
Vin rising time

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5.1.2 Signal Electrical Characteristics

Input signals shall be low or High-impedance state when VDD is off.
It is recommended to refer the specifications of THC63LVDF84A (Thine Electronics Inc.) in detail.

Signal electrical characteristics are as follows;

Parameter	Condition	Min	Max	Unit
Vth	Differential Input High Threshold (Vcm=+1.2V)	-	100	[mV]
Vtl	Differential Input Low Threshold (Vcm=+1.2V)	-100	-	[mV]
Vcm	Differential Input Common Mode Voltage	1.125	1.375	[V]

Note: LVDS Signal Waveform
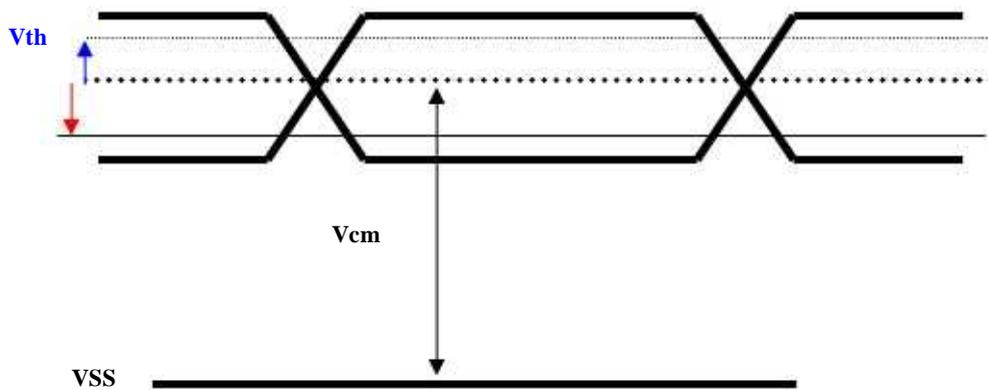
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5.2 Backlight Unit

LED Parameter guideline for LED driving selection (Ref. Remark 1)

Parameter	Symbol	Min	Typ	Max	Units	Condition
LED Forward Voltage	V_F	3.0	3.2	3.4	[Volt]	(Ta=25 ℃)
LED Forward Current	I_F		20		[mA]	(Ta=25 ℃)
LED Power consumption	P_{LED}		4.07	4.4	[Watt]	(Ta=25 ℃) Note 1
LED Life-Time	N/A	10,000	-	-	Hour	(Ta=25 ℃) I_F=20 mA Note 2
Output PWM frequency	F_{PWM}	100	200	20K	Hz	
Duty ratio	--	5	--	100	%	

Note 1: Calculator value for reference $I_F \times V_F = P$

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

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6. Signal Characteristic

6.1 Pixel Format Image

Following figure shows the relationship of the input signals and LCD pixel format.
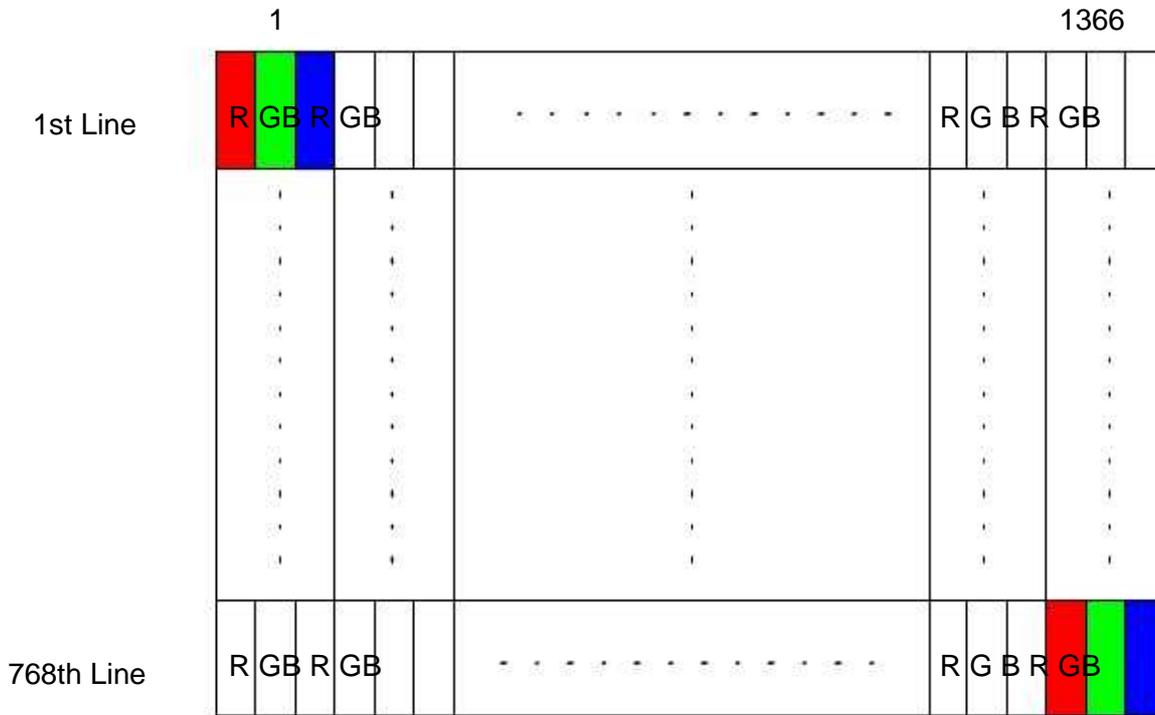
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6.2 The input data format
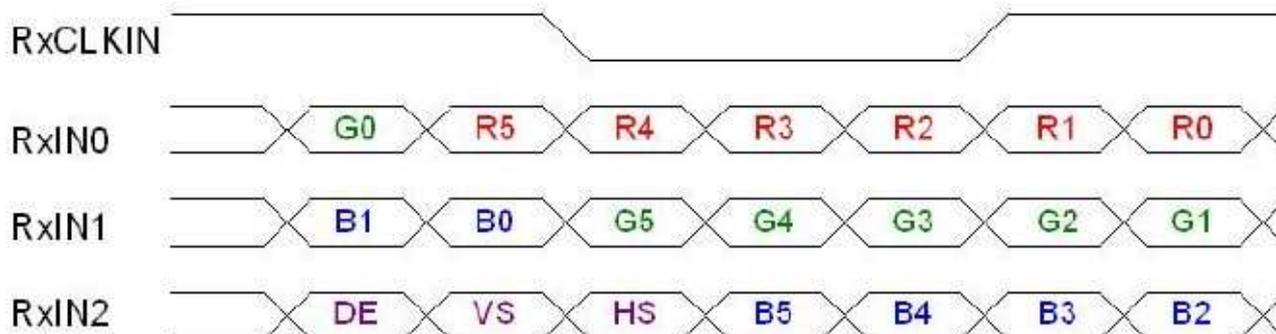
Signal Name	Description	
R5 R4 R3 R2 R1 R0	Red Data 5 (MSB) Red Data 4 Red Data 3 Red Data 2 Red Data 1 Red Data 0 (LSB) Red-pixel Data	Red-pixel Data Each red pixel's brightness data consists of these 6 bits pixel data.
G5 G4 G3 G2 G1 G0	Green Data 5 (MSB) Green Data 4 Green Data 3 Green Data 2 Green Data 1 Green Data 0 (LSB) Green-pixel Data	Green-pixel Data Each green pixel's brightness data consists of these 6 bits pixel data.
B5 B4 B3 B2 B1 B0	Blue Data 5 (MSB) Blue Data 4 Blue Data 3 Blue Data 2 Blue Data 1 Blue Data 0 (LSB) Blue-pixel Data	Blue-pixel Data Each blue pixel's brightness data consists of these 6 bits 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 falling edge when the DE signal is high.
DE	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. The signal is synchronized to RxCLKIN .
VS	Vertical Sync	The signal is synchronized to RxCLKIN .
HS	Horizontal Sync	

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

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6.3 Integration Interface and Pin Assignment

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

Pin	Signal	Description
1	NC	No Connection (Reserve)
2	AVDD	PowerSupply,3.3V(typical)
3	AVDD	PowerSupply,3.3V(typical)
4	DVDD	DDC 3.3Vpower
5	NC	No Connection (Reserve)
6	SCL	DDCClock
7	SDA	DDCData
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
20	NC	No Connection (Reserve)
21	NC	No Connection (Reserve)
22	GND	Ground
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

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34	NC	No Connection (Reserve)
35	PWM	System PWM Signal Input
36	LED_EN	LED enable pin(+3V Input)
37	NC	No Connection (Reserve)
38	VLED	LED Power Supply 7V-20V
39	VLED	LED Power Supply 7V-20V
40	VLED	LED Power Supply 7V-20V

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Note1: Start from right side

Connector

I-PEX 20455-040E-12

GND

40

1

NC
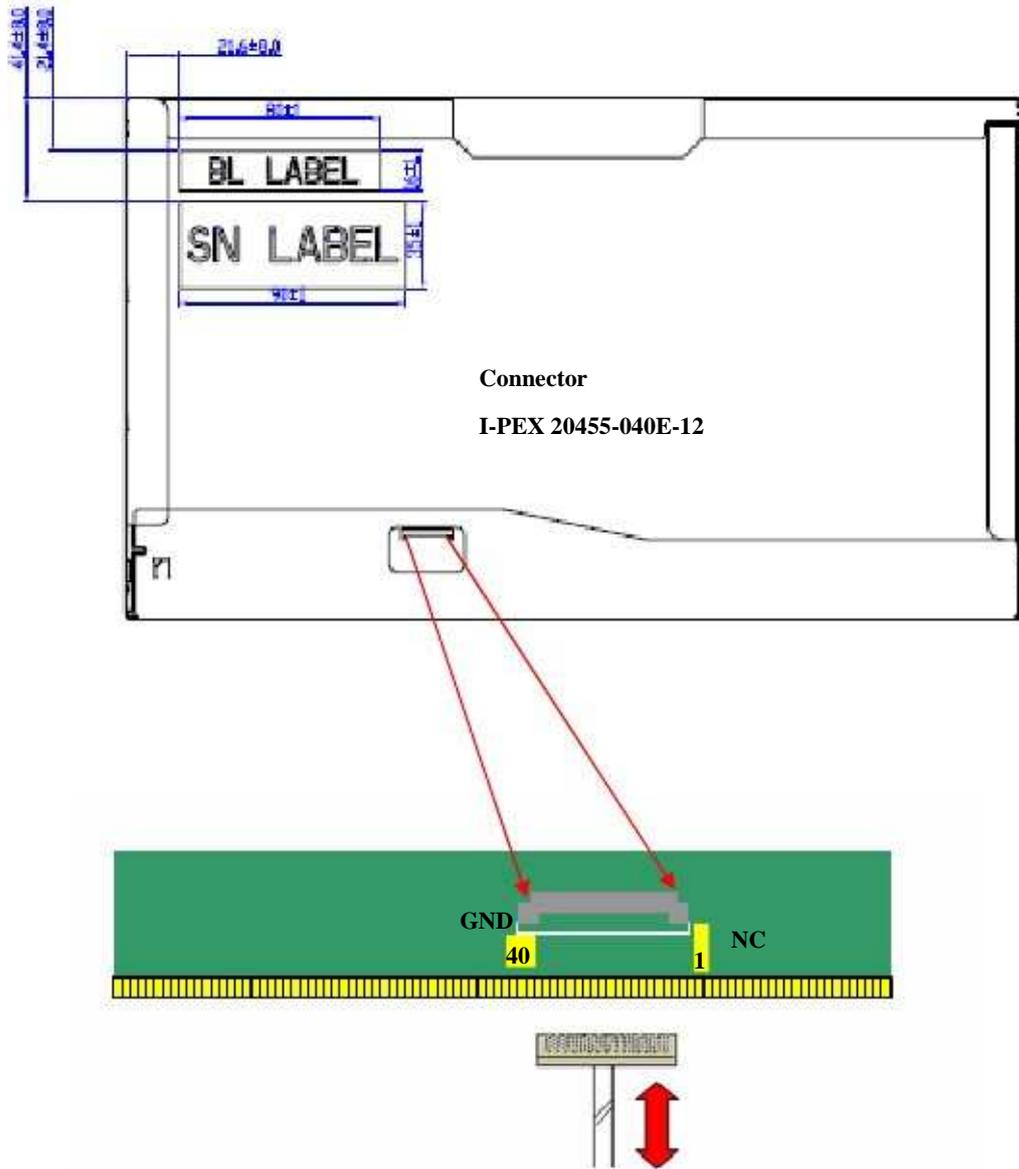
Note2: Input signals shall be low or High-impedance state when VDD is off.
  internal circuit of LVDS inputs are as following.
  The module uses a 100ohm resistor between positive and negative data lines of each receiver input

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6.4 Interface Timing

6.4.1 Timing Characteristics

Basically, interface timings should match the 1366x768 /60Hz manufacturing guide line timing.

Parameter		Symbol	Min.	Typ.	Max.	Unit
Frame Rate		-	50	60	-	Hz
Clock frequency		1/ T_{Clock}	65	69.5	72	MHz
Vertical Section	Period	T_V	776	808	1023	T_{Line}
	Active	T_{VD}	768	768	768	
	Blanking	T_{VB}	8	40	255	
Horizontal Section	Period	T_H	1396	1606	2047	T_{Clock}
	Active	T_{HD}	1366	1366	1366	
	Blanking	T_{HB}	30	240	681	

Note : DE mode only

6.4.2 Timing diagram
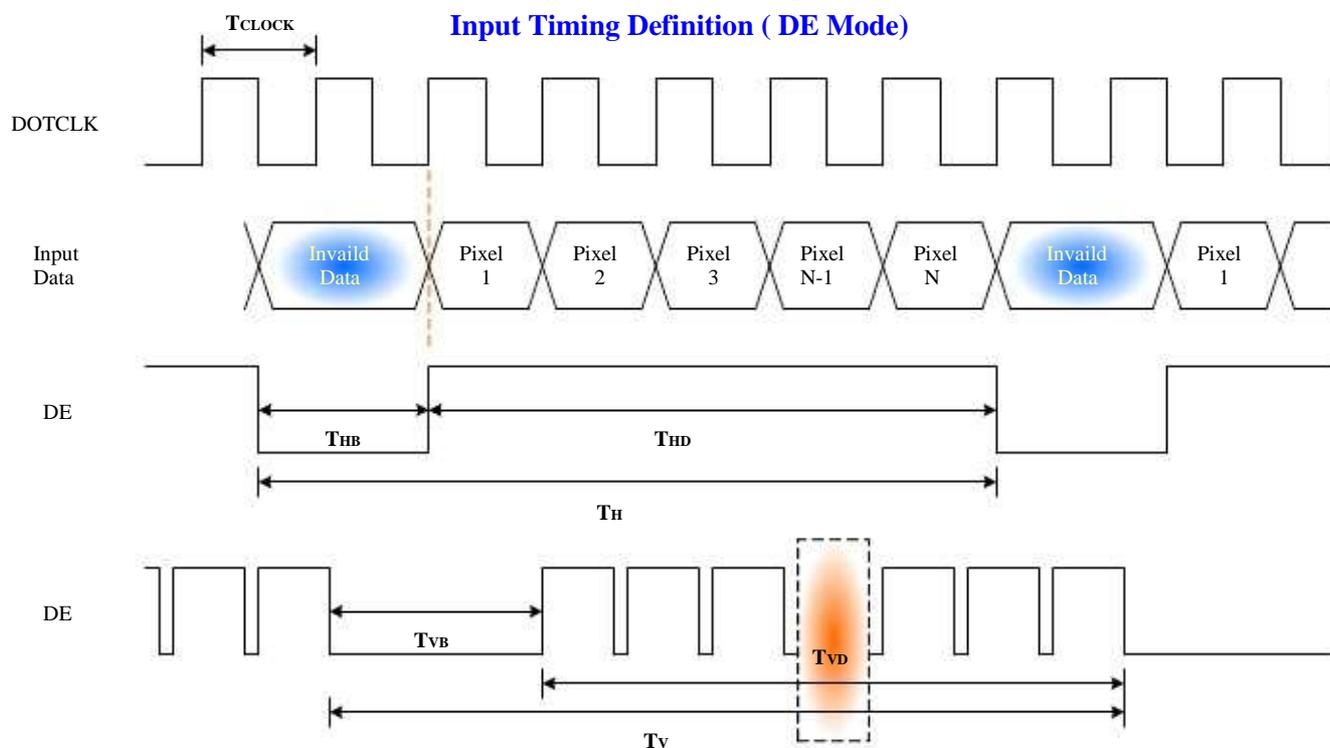
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6.5 Power ON/OFF Sequence

VDD power 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
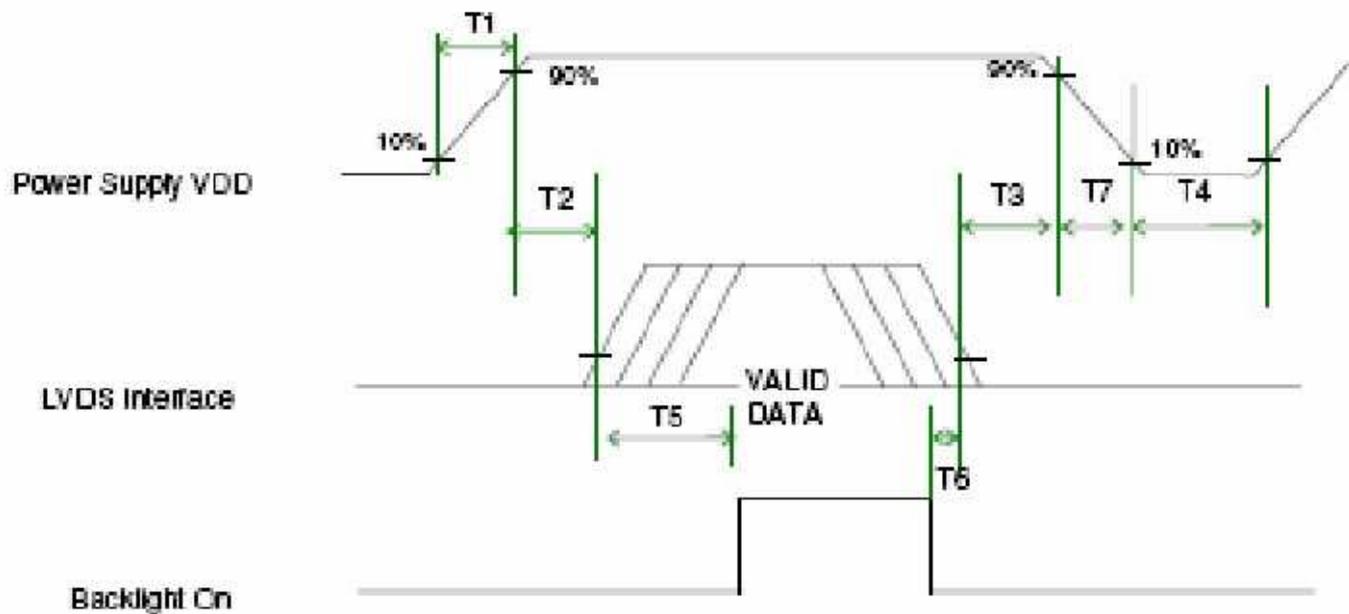
Power Sequence Timing

Parameter	Value			Units
	Min.	Typ.	Max.	
T1	0.5	-	10	
T2	0	-	50	
T3	0	-	50	
T4	400	-	-	ms
T5	200	-	-	
T6	200	-	-	
T7	0	-	10	

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LED on/off sequence is as follows. Interface signals are also shown in the chart.
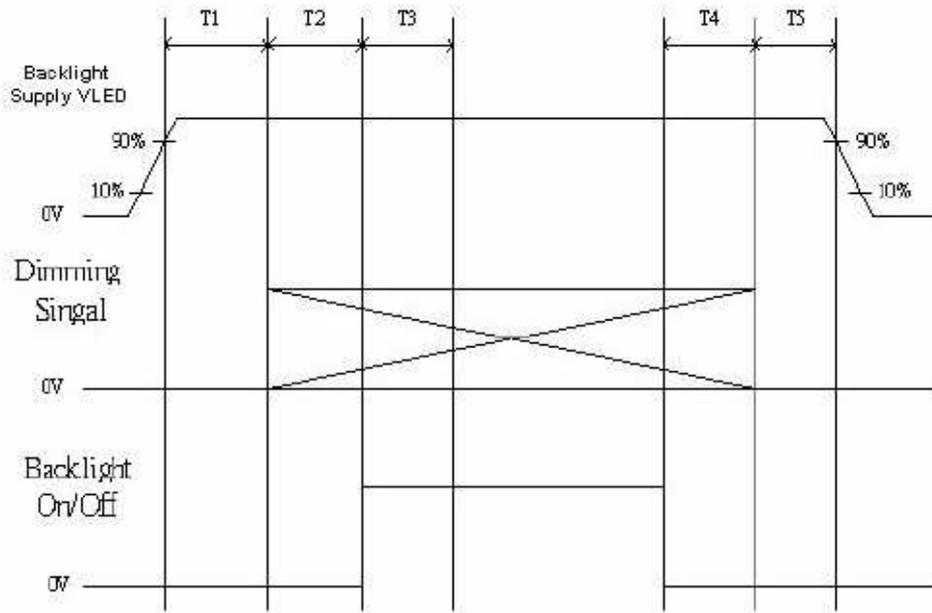
Symbol	Values			Unit
	Min	Typ	Max	
T1	10	---	---	ms
T2	10	---	---	
T3	50	---	---	
T4	0	---	---	
T5	10	---	---	

Note: The duty of LED dimming signal should be more than 20% in T2 and T3.

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7. 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.

7.1 TFT LCD Module

Connector Name / Designation	For Signal Connector
Manufacturer	IPEX or compatible
Type / Part Number	I-PEX 20455-040E-12 or compatible
Mating Housing/Part Number	I-PEX 20453-040T-11or compatible

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8. LED Driving Specification

8.1 Connector Description

It is a intergrative interface and comibe into LVDS connector. The type and mating refer to section 7.

8.2 Pin Assignment

Ref. to 6.3

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9. Vibration and Shock Test

9.1 Vibration Test

Test Spec:

Test method:	Non-Operation
Acceleration:	1.5 G
Frequency:	10 - 500Hz Random
Sweep:	30 Minutes each Axis (X, Y, Z)

9.2 Shock Test Spec:

Test Spec:

Test method:	Non-Operation
Acceleration:	220 G , Half sine wave
Active time:	2 ms
Pulse:	X,Y,Z .one time for each side

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10. Reliability

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

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

. Self-recoverable. No hardware failures.

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

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11. Mechanical Characteristics

11.1 LCM Outline Dimension-Note: Prevention IC damage, IC positions not allowed any overlap over these areas.
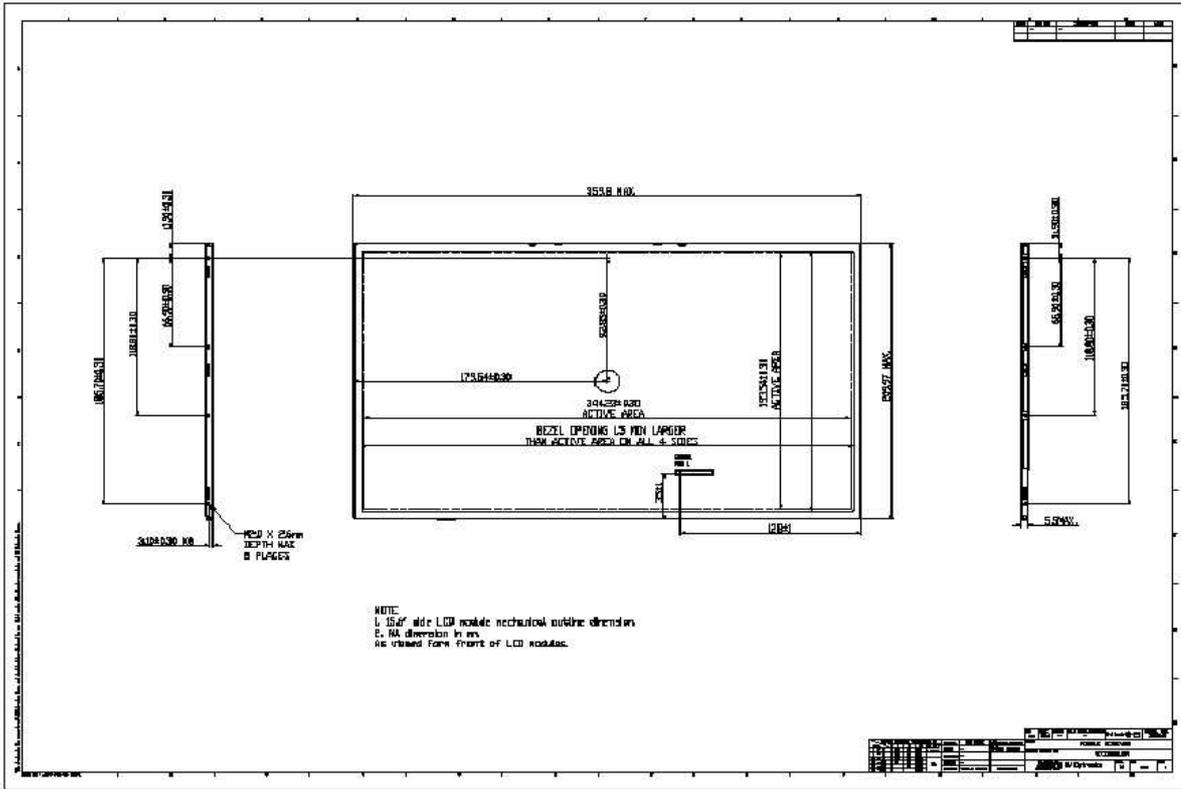
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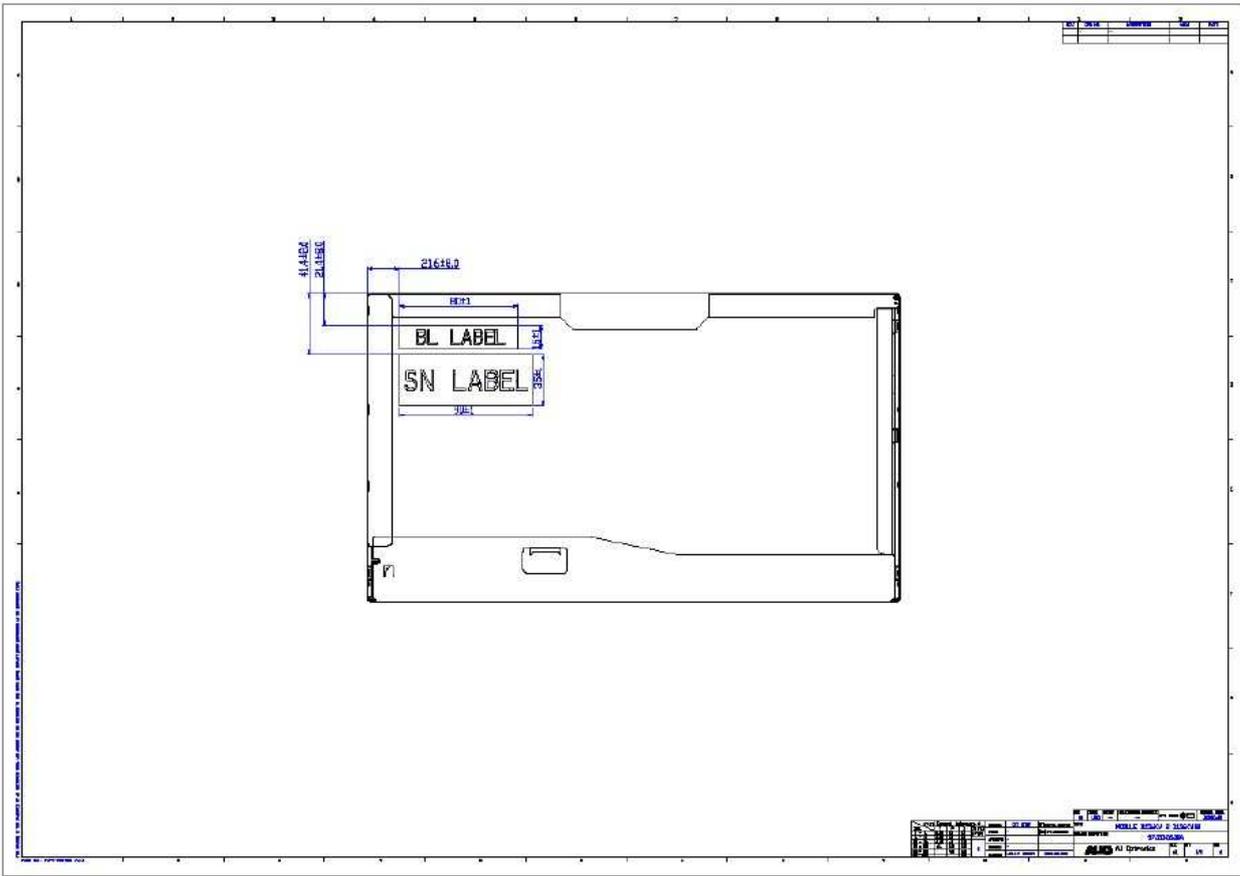
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11.2 Screw Hole Depth and Center Position

Screw hole minimum depth, from side surface = 2.3 ± 0.3mm (See drawing)

Screw hole center location, from front surface = 3.1 ± 0.3mm (See drawing)
Screw Torque: Maximum 2.5 kgf-cm
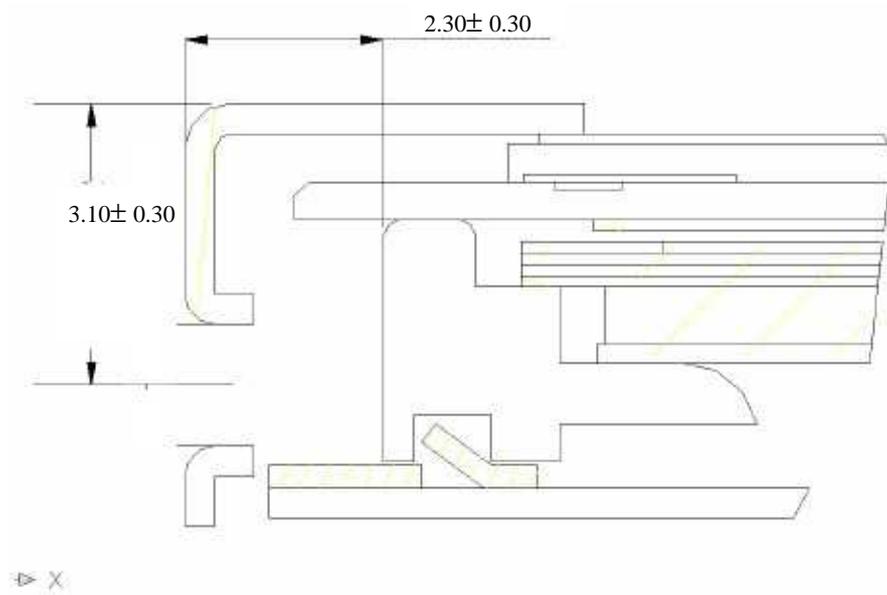
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12. Shipping and Package

12.1 Shipping Label Format

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12.2 Carton package

The outside dimension of carton is 455 (L)mm x 380 (W)mm x 355 (H)mm
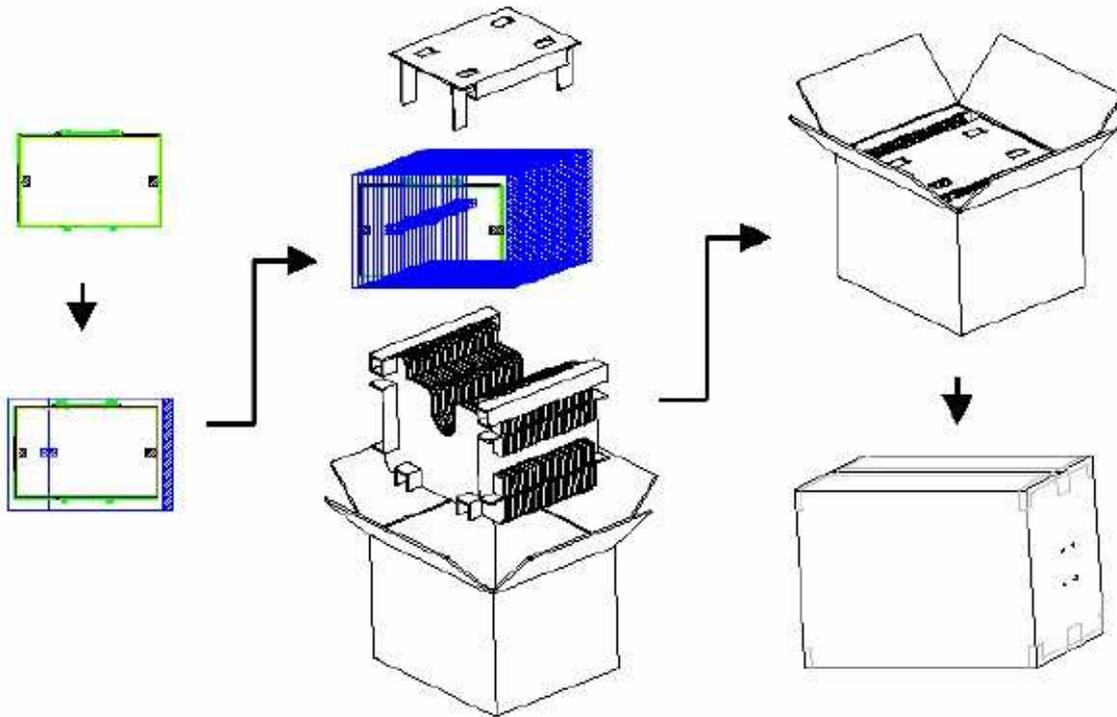
12.3 Shipping package of palletizing sequence

Top cardboard

Bottom cardboard
Wooden pallet

Corner angle

PE band

Stretch film
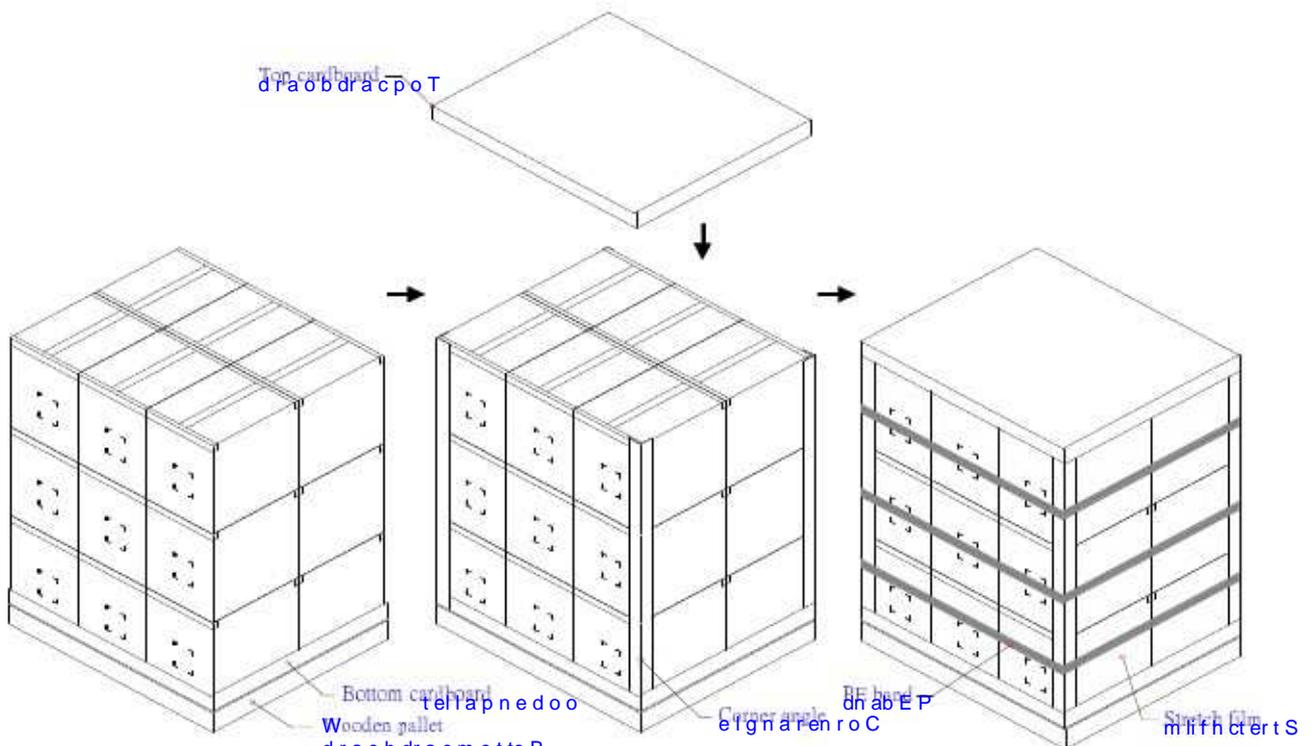
Note : Limit of box palletizing = Max 3 layers(this and work conditions)

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13. Appendix: EDID description

| Address	FUNCTION	Value	Value	Value
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	Product Code	EC	11101100	236
0B	Product Code	20	00100000	32
0C	32-bit ser #	00	00000000	0
0D		00	00000000	0
0E		00	00000000	0
0F		00	00000000	0
10	Week of manufacture	01	00000001	1
11	Year of manufacture	12	00010010	18
12	EDID Structure Ver.	01	00000001	1
13	EDID revision #	03	00000011	3
14	**Video input def.** (digital I/P, non-TMDS, CRGB)	80	10000000	128
15	**Max H image size** (rounded to cm)	22	00100010	34
16	**Max V image size** (rounded to cm)	13	00010011	19
17	**Display Gamma** (=(gamma*100)-100)	78	01111000	120
18	**Feature support** (no DPMS, Active OFF, RGB, tmg Blk#1)	0A	00001010	10
19	Red/green low bits **(Lower 2:2:2:2 bits)**	57	01010111	87
1A	Blue/white low bits **(Lower 2:2:2:2 bits)**	55	01010101	85
1B	Red x **(Upper 8 bits)**	9C	10011100	156
1C	Red y/ highER 8 bits	5A	01011010	90
1D	Green x	54	01010100	84
1E	Green y	9D	10011101	157
1F	Blue x	26	00100110	38
20	Blue y	1A	00011010	26
21	White x	50	01010000	80
22	White y	54	01010100	84
23	Established timing 1	00	00000000	0
24	Established timing 2	00	00000000	0
25	Established timing 3	00	00000000	0
26	Standard timing #1	01	00000001	1

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Address	Description	Hex	Binary	Dec
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/10000 LSB	26	00100110	38
37	Pixel Clock/10000 USB	1B	00011011	27
38	Horz active **Lower 8bits**	56	01010110	86
39	Horz blanking **Lower 8bits**	47	01000111	71
3A	HorzAct:HorzBlnk**Upper 4:4 bits**	50	01010000	80
3B	Vertical Active **Lower 8bits**	00	00000000	0
3C	Vertical Blanking **Lower 8bits**	26	00100110	38
3D	Vert Act : Vertical Blanking **(upper 4:4 bit)**	30	00110000	48
3E	HorzSync. Offset	30	00110000	48
3F	HorzSync.Width	20	00100000	32
40	VertSync.Offset : VertSync.Width	34	00110100	52
41	Horz&Vert Sync Offset/Width **Upper 2bits**	00	00000000	0
42	Horizontal Image Size **Lower 8bits**	58	01011000	88
43	Vertical Image Size **Lower 8bits**	C1	11000001	193
44	Horizontal & Vertical Image Size **(upper 4:4 bits)**	10	00010000	16
45	Horizontal Border (zero for internal LCD)	00	00000000	0
46	Vertical Border (zero for internal LCD)	00	00000000	0
47	Signal (non-intr, norm, no stero, sep sync, neg pol)	18	00011000	24
48	Detailed timing/monitor	00	00000000	0
49	descriptor #2	00	00000000	0
4A		00	00000000	0
4B		0F	00001111	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

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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	Detailed timing/monitor	00	00000000	0
5B	descriptor #3	00	00000000	0
5C		00	00000000	0
5D		FE	11111110	254
5E		00	00000000	0
5F	Manufacture	41	01000001	65
60	Manufacture	55	01010101	85
61	Manufacture	4F	01001111	79
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	Detailed timing/monitor	00	00000000	0
6D	descriptor #4	00	00000000	0
6E		00	00000000	0
6F		FE	11111110	254
70		00	00000000	0
71	Manufacture P/N	42	01000010	66
72	Manufacture P/N	31	00110001	49
73	Manufacture P/N	35	00110101	53
74	Manufacture P/N	36	00110110	54
75	Manufacture P/N	58	01011000	88
76	Manufacture P/N	57	01010111	87
77	Manufacture P/N	30	00110000	48
78	Manufacture P/N	32	00110010	50
79	Manufacture P/N	20	00100000	32
7A	Manufacture P/N	56	01010110	86
7B	Manufacture P/N	30	00110000	48
7C		20	00100000	32

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7D		0A	00001010	10
7E	Extension Flag	00	00000000	0
7F	Checksum	2E	00101110	46