



Product Specification

AU OPTRONICS CORPORATION

B141EW01 V4

() Preliminary Specifications

(V) Final Specifications

Module	14.1" WXGA Color TFT-LCD
Model Name	B141EW01 V4 (Dell P/N: XU295, M08 Inverter Version)

Customer	Date
_____	_____
 Checked & Approved by	
_____	_____

Note: This Specification is subject to change without notice.

Approved by	Date
Howard Lee _____	2007/04/12 _____
 Prepared by	
Weitse Hsu _____	2007/04/12 _____

NBBU Marketing Division /
AU Optronics corporation



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Record of Revision

Version and Date	Page	Old description	New Description	Remark
0.0 2007/01/18	All	First Edition for Customer		
0.1 2007/04/12	P. 5	Weight (w/o Inverter) 420 Typ., 440 Max.	Weight (w/o Inverter) 435 Typ., 455 Max.	For the addition of APCF.
	P. 32~44	EDID code, 36H, 37H, 39H, 48H~59H, 64H, 71H-78H.	EDID code, 36H, 37H, 39H, 48H~59H, 64H, 71H-78H.	For the addition of APCF and solving Dell WWAN issue.



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) 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 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) 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 CCFL in it is supplied by Limited Current Circuit(IEC60950 or UL1950). Do not connect the CCFL in Hazardous Voltage Circuit.



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2. General Description

B141EW01 V4 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. M08 Inverter of backlight is included.

B141EW01 V4 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 °C condition:

Items	Unit	Specifications
Screen Diagonal	[mm]	357.7 (14.1 W")
Active Area	[mm]	303.36(H) x 189.6 (V)
Pixels H x V		1280x3(RGB) x 800
Pixel Pitch	[mm]	0.237
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		Normally White
White Luminance (ICCFL=6.0mA) Note: ICCFL is lamp current	[cd/m ²]	220 Typ. (5 points average) 200 Min. (5 points average) (Note1)
Luminance Uniformity		1.2 max. (5 points)
Contrast Ratio		350:1 Typ., 300:1 Min.
Optical Rise Time/Fall Time	[msec]	25 Typ., 35 Max.
Nominal Input Voltage VDD	[Volt]	+3.3 Typ.
Power Consumption	[Watt]	5.8 Typ. (w/o Inverter) @ 6.0 mA
Weight (w/o Inverter)	[Grams]	435g Typ., 455g Max.
Physical Size	[mm]	320 max. (W) x 206 max. (H) x 5.5 max.(T).
Electrical Interface		R/G/B Data, 3 Sync, Signals, Clock (4 pairs LVDS)
Surface Treatment		Haze 40, hard coating 3H, AG
Support Color		262K colors (RGB 6-bit)
Temperature Range Operating Storage (Non-Operating)	[°C] [°C]	0 to +50 -25 to +65
RoHS Compliance		RoHS Compliance



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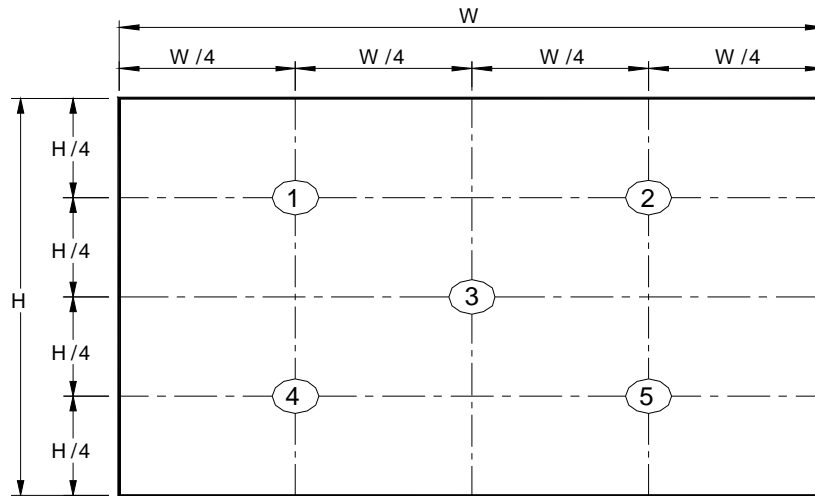
B141EW01 V4

2.2 Optical Characteristics

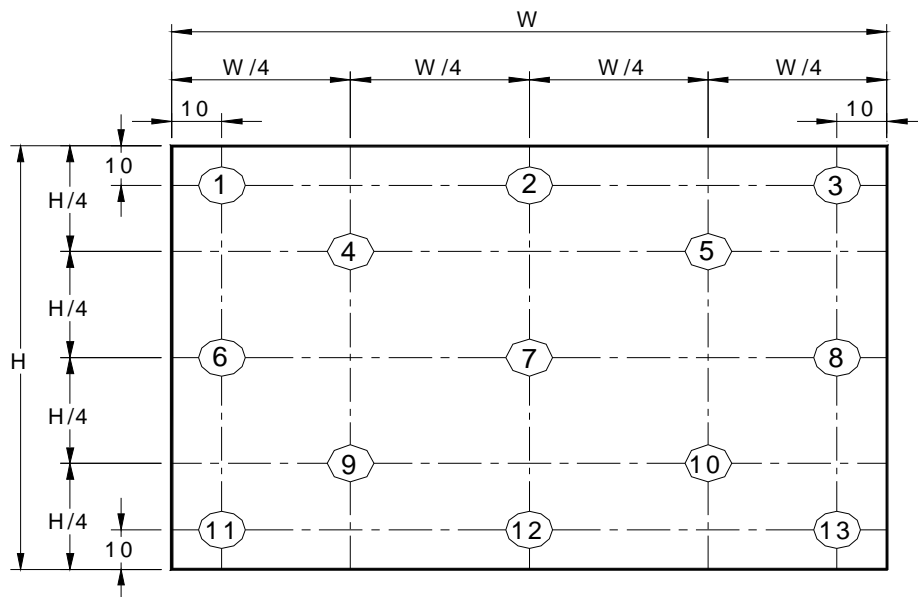
The optical characteristics are measured under stable conditions at 25°C (Room Temperature):

Item	Unit	Conditions	Min.	Typ.	Max.	Note
White Luminance I _{CCFL} =6.0mA	[cd/m ²]	5 points average	200	220	-	1, 4, 5.
Viewing Angle	[degree]	Horizontal (Right)	40	45	-	8
	[degree]	CR = 10 (Left)	40	45	-	
	[degree]	Vertical (Upper)	15	20	-	
	[degree]	CR = 10 (Lower)	30	35	-	
Luminance Uniformity		5 Points			1.20	1
Luminance Uniformity		13 Points			1.80	2
CR: Contrast Ratio			300	350	-	6
Cross talk	%				1.4	7
Response Time	[msec]	Rising	-	15	20	8
	[msec]	Falling	-	10	15	
	[msec]	Rising + Falling		25	35	
Color / Chromaticity Coordinates (CIE 1931)		Red x	0.550	0.580	0.610	2,8
		Red y	0.310	0.340	0.370	
		Green x	0.280	0.310	0.340	
		Green y	0.520	0.550	0.580	
		Blue x	0.125	0.155	0.185	
		Blue y	0.115	0.145	0.175	
		White x	0.283	0.313	0.343	
		White y	0.299	0.329	0.359	

Note 1: 5 points position (Display area : 303.36 (H) x 189.6(V)mm)



Note 2: 13 points position



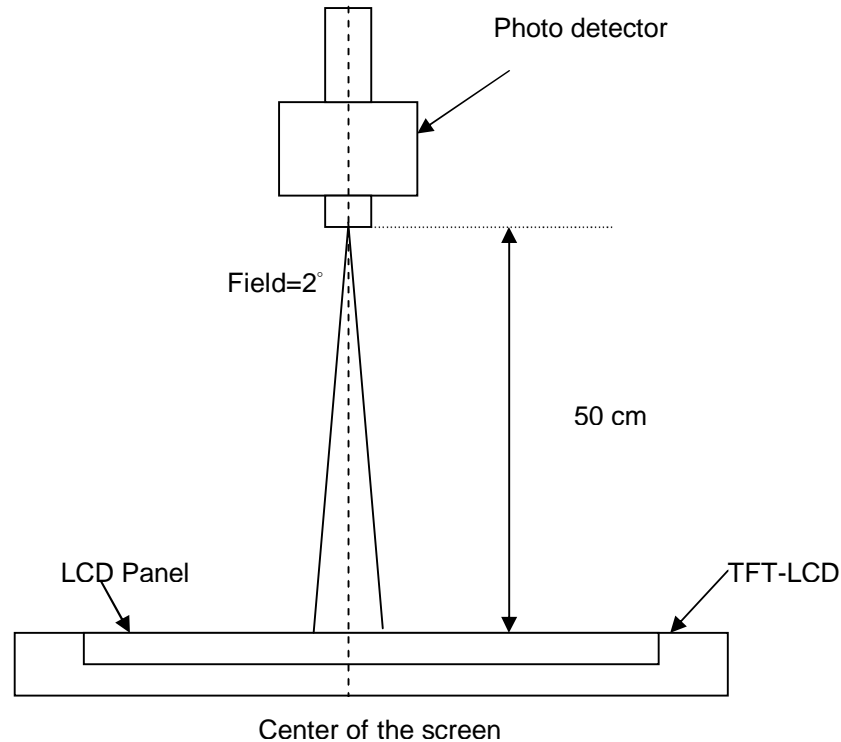
Note 3: The luminance uniformity of 5 and 13 points is defined by dividing the maximum luminance values by the minimum test point luminance

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

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

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 Backlight for 30 minutes in a stable, windless and dark room.



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.

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

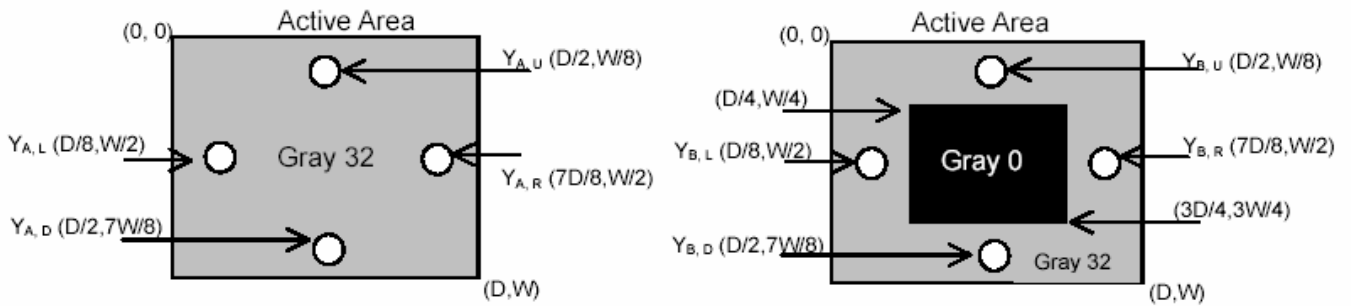
Note 7 : Definition of Cross Talk (CT)

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

Where

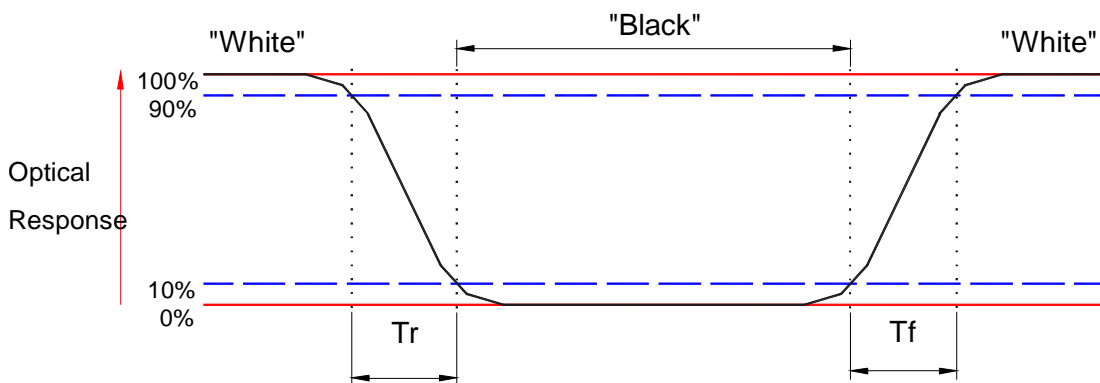
Y_A = Luminance of measured location without gray level 0 pattern (cd/m²)

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



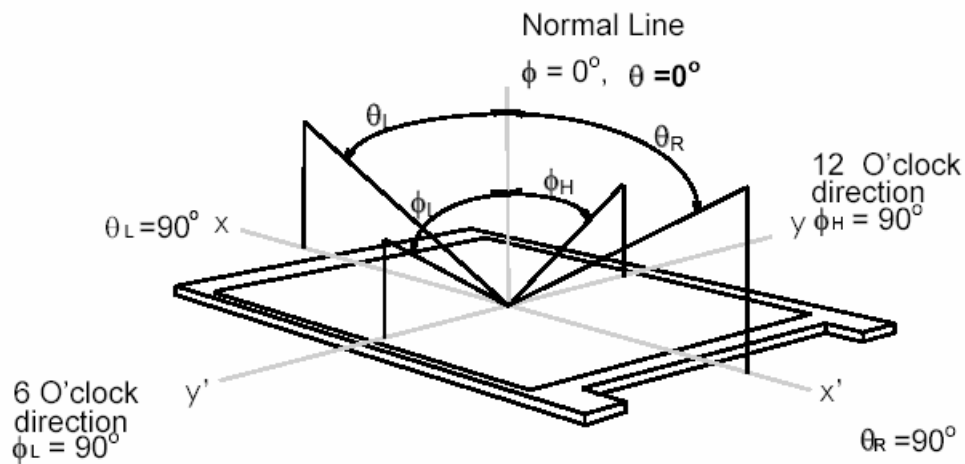
Note 8: Definition of response time:

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.



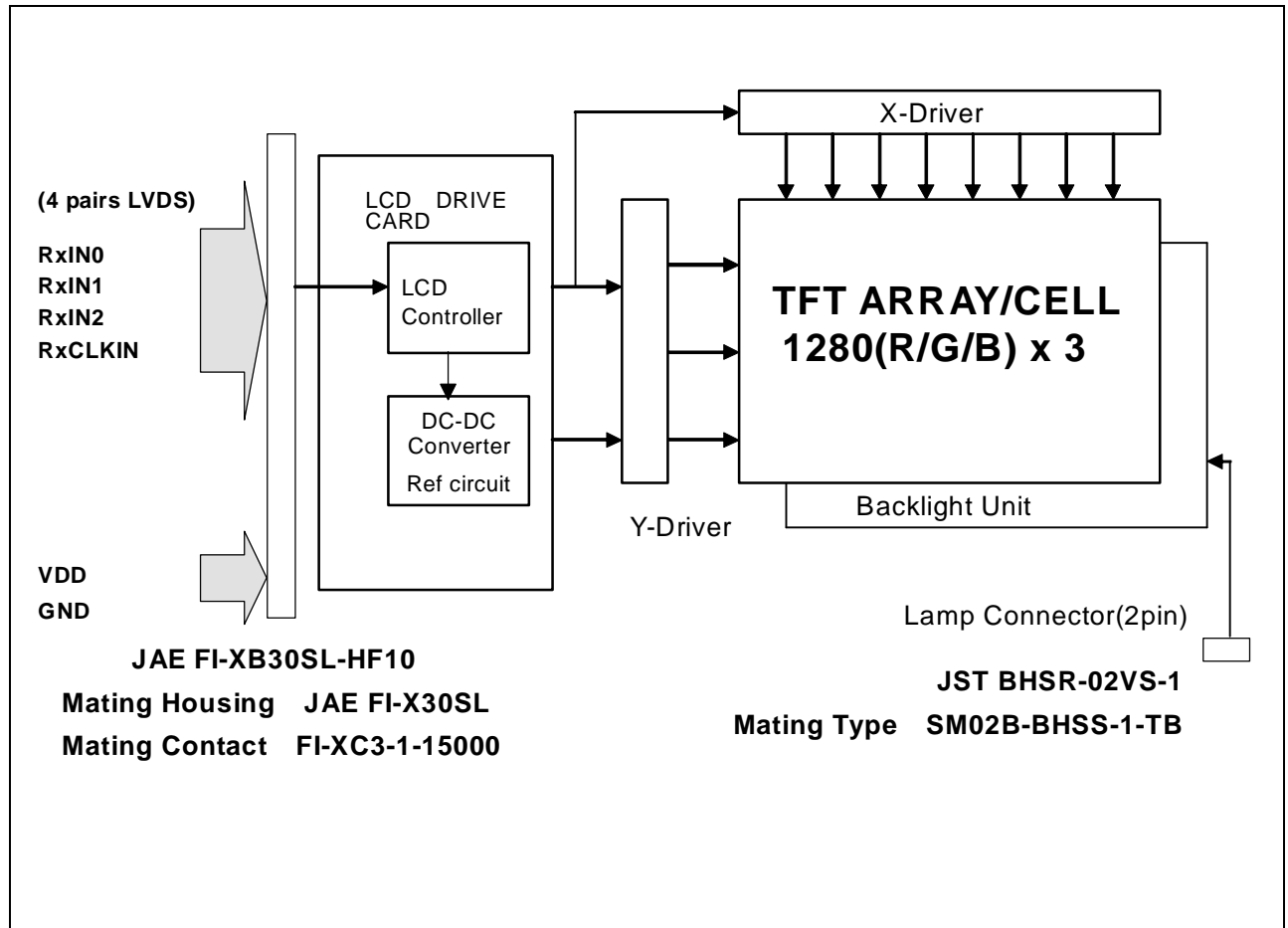
Note 9. Definition of viewing angle

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 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 14.1 inches wide Color TFT/LCD Module:





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4. Absolute Maximum Ratings

Absolute maximum ratings of the module are as following:

4.1 Absolute Ratings of TFT LCD Module

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

4.2 Absolute Ratings of Backlight Unit

Item	Symbol	Min	Max	Unit	Conditions
CCFL Current	ICFL	2.5	7.0	[mA] rms	Note 1,2

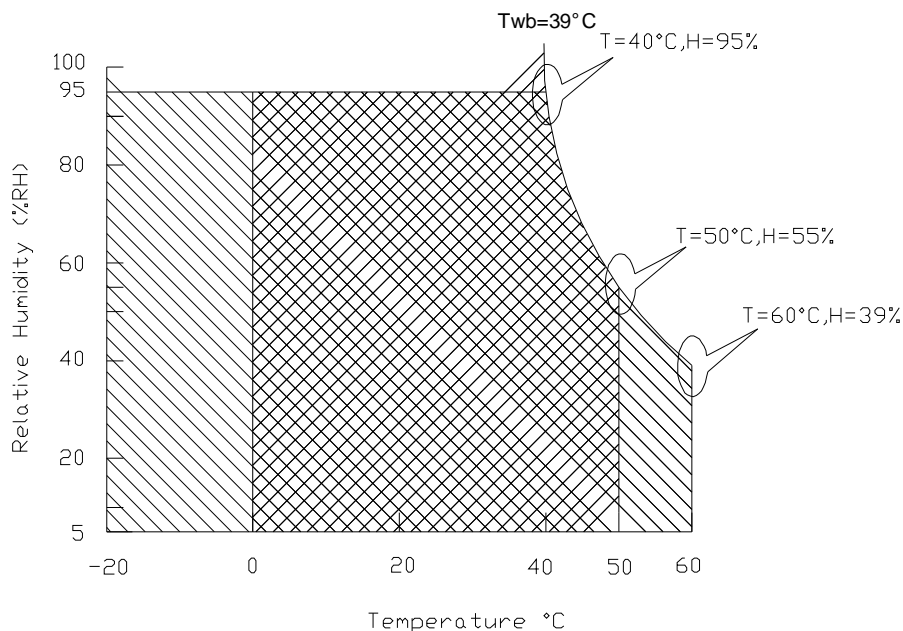
4.3 Absolute Ratings of Environment

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	-25	+65	[°C]	Note 3
Storage Humidity	HST	5	95	[%RH]	Note 3

Note 1: At Ta (25°C)

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

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



Operating Range



Storage Range



5. Electrical characteristics

5.1 TFT LCD Module

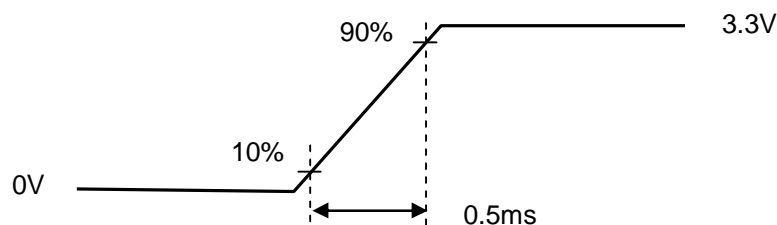
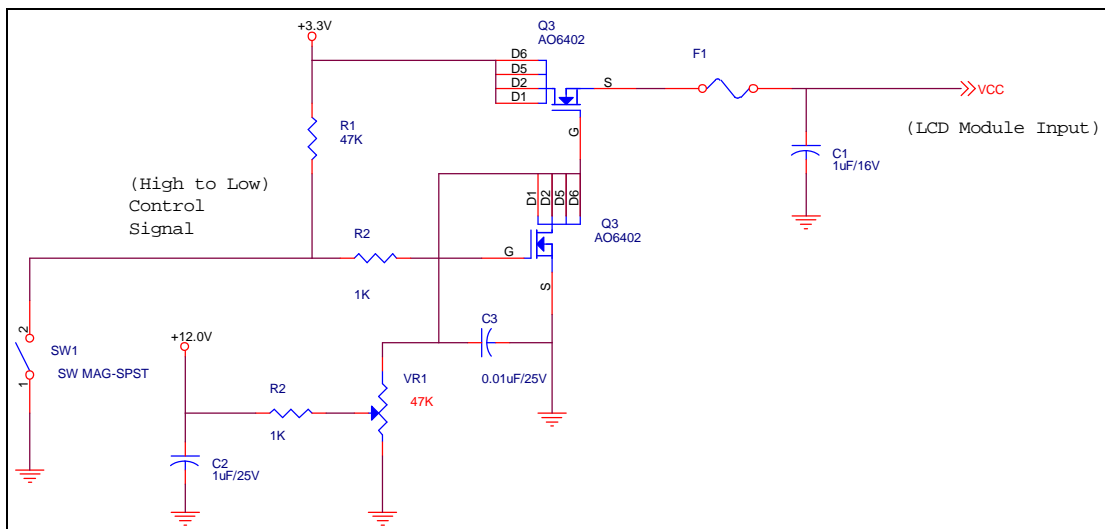
5.1.1 Power Specification

Input power specifications are as follows;

Symble	Parameter	Min	Typ	Max	Units	Note
VDD	Logic/LCD Drive Voltage	3.0	3.3	3.6	[Volt]	
PDD	VDD Power		1.2		[Watt]	Note 1
IDD	IDD Current		360		[mA]	Note 1
IRush	Inrush Current			1200	[mA]	Note 2
VDDrp	Allowable Logic/LCD Drive Ripple Voltage			100	[mV] p-p	

Note 1 : Maximum Measurement Condition : Black Pattern

Note 2 : Measure Condition



Vin rising time

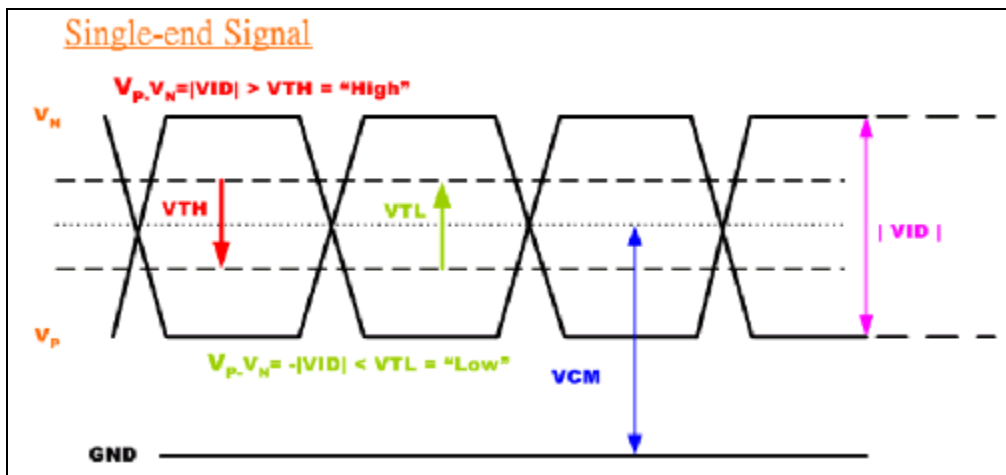
5.1.2 Signal Electrical Characteristics

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

Signal electrical characteristics are as follows;

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

Note: LVDS Differential Voltage



5.2 Backlight Unit

Parameter guideline for CCFL Inverter

Parameter	Min	Typ	Max	Units	Condition
White Luminance 5 points average	200	220	-	[cd/m ²]	(Ta=25°C)
CCFL current(ICCFL)	2.5	6.0	7.0	[mA] rms	(Ta=25°C) Note 2
CCFL Frequency(FCCFL)	50	60	65	[KHz]	(Ta=25°C) Note 3,4
CCFL Ignition Voltage(Vs)			1440	[Volt] rms	(Ta= 0°C) Note 5
CCFL Ignition Voltage(Vs)		1000	1200	[Volt] rms	(Ta= 25°C) Note 5
CCFL Voltage (Reference) (VCCFL)		650		[Volt] rms	(Ta=25°C) Note 6
CCFL Power consumption (PCCFL) @ 6.0 mA	-	4.6		[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 CCFL, for instance, becomes more than 1 [M ohm] when CFL is damaged.

*4 Generally, CCFL 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 CCFL discharge frequency must be carefully chosen so as not to produce interfering noise stripes on the screen.

*6 Reducing CCFL current increases CCFL discharge voltage and generally increases CCFL 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 ICCFL is less than 4mA.

Note 3: CCFL 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: CCFL 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 ($I_{CCFL} \times V_{CCFL} = P_{CCFL}$)

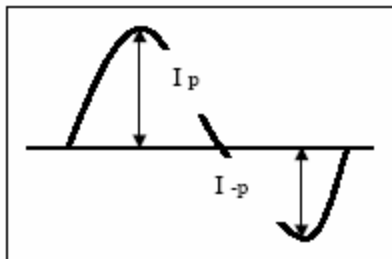
Note 7: Requirements for a system inverter design, which is intended to have a better display performance, a better power efficiency and a more reliable lamp, are following.

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.



* Asymmetry rate:

$$\frac{|I_p - I_{-p}|}{I_{rms}} \times 100\%$$

* Distortion rate

$$I_p \text{ (or } I_{-p}) / I_{rms}$$



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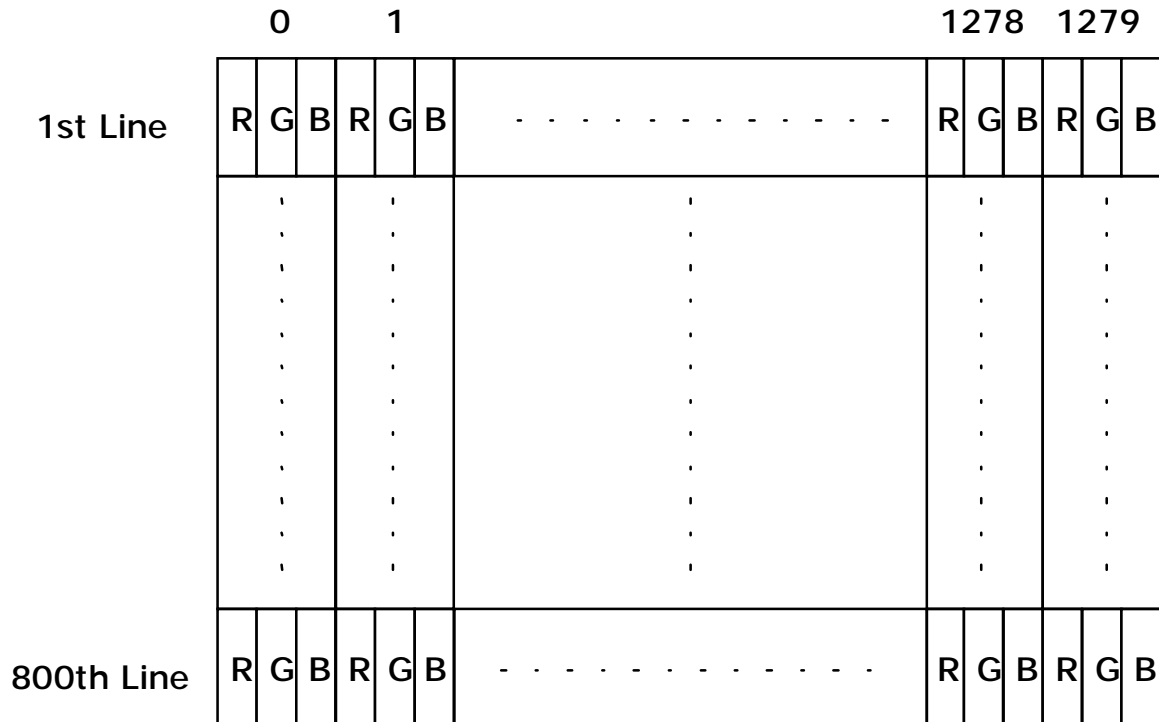
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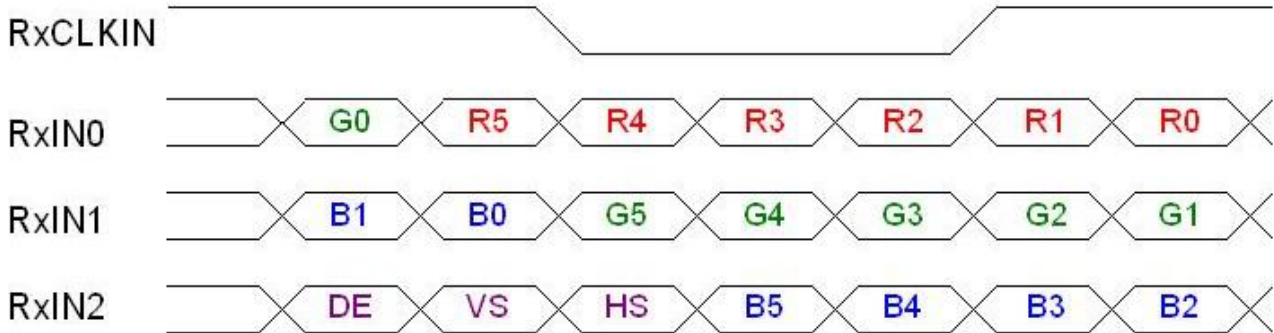
6. Signal Characteristic

6.1 Pixel Format Image

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



6.2 The input data format



Signal Name	Description	
+RED5 (R5) +RED4 (R4) +RED3 (R3) +RED2 (R2) +RED1 (R1) +RED0 (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.
+GREEN 5 (G5) +GREEN 4 (G4) +GREEN 3 (G3) +GREEN 2 (G2) +GREEN 1 (G1) +GREEN 0 (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.
+BLUE 5 (B5) +BLUE 4 (B4) +BLUE 3 (B3) +BLUE 2 (B2) +BLUE 1 (B1) +BLUE 0 (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.
-DTCLK	Data Clock	The typical frequency is 71.1 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 (DE)	Display Timing	This signal is stored at the falling edge of -DTCLK. When the signal is high, the pixel data shall be valid to be displayed.
VSUNC (VS)	Vertical Sync	The signal is synchronized to -DTCLK .
HSUNC (HS)	Horizontal Sync	The signal is synchronized to -DTCLK .

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



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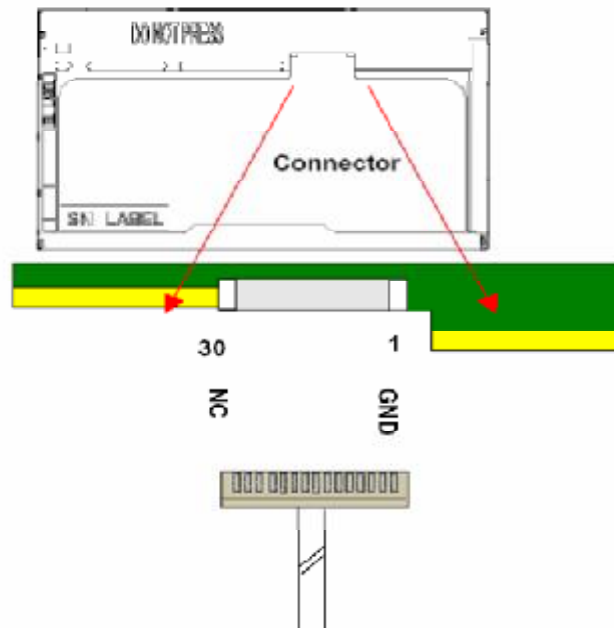
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6.3 Signal Description/Pin Assignment

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

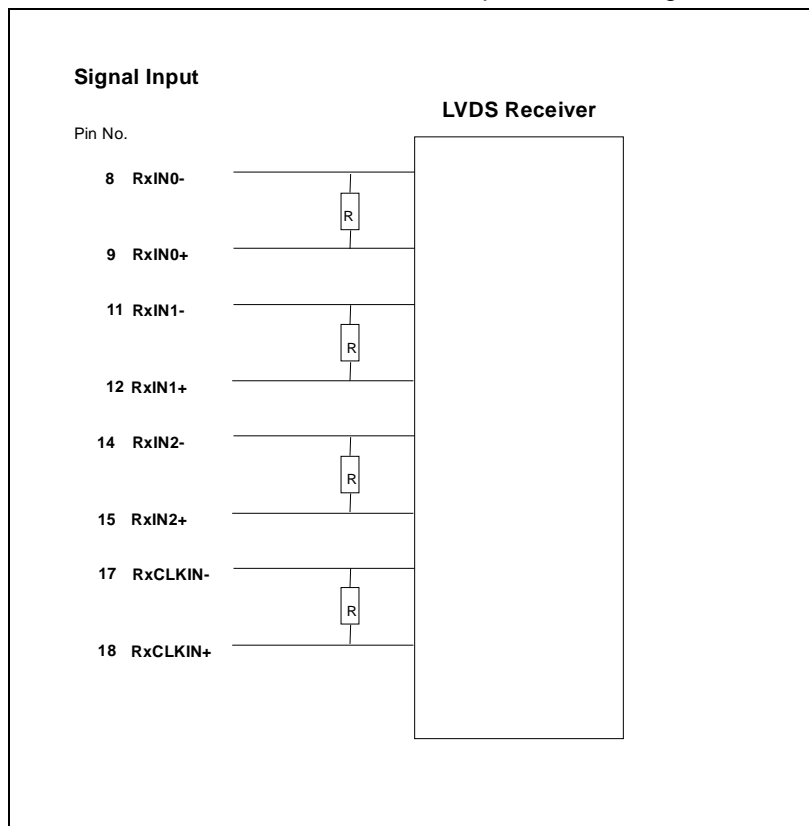
Pin#	Signal Name	Pin#	Signal Name
1	GND	2	VDD
3	VDD	4	V _{EDID}
5	Aging	6	CLK _{EDID}
7	DATA _{EDID}	8	RxIN0-
9	RxIN0+	10	GND
11	RxIN1-	12	RxIN1+
13	GND	14	RxIN2-
15	RxIN2+	16	GND
17	RxCLKIN-	18	RxCLKIN+
19	GND	20	NC
21	NC	22	GND
23	NC	24	NC
25	GND	26	NC
27	NC	28	GND
29	NC	30	NC

Note1: Start from right side



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

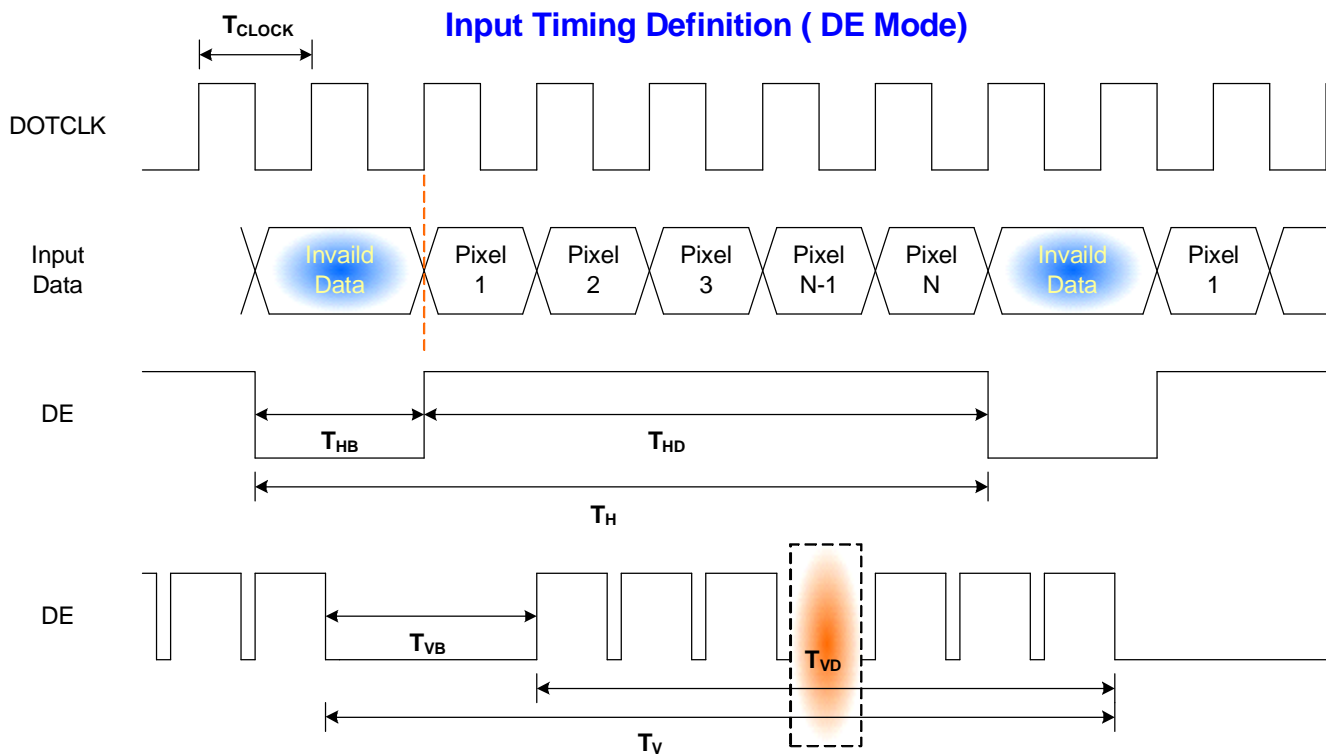
6.4.1 Timing Characteristics

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

Parameter		Symbol	Min.	Typ.	Max.	Unit
Frame Rate		-		60	-	Hz
Clock frequency		$1/T_{\text{Clock}}$		71.1		MHz
Vertical Section	Period	T_V	803	823	1023	T_{Line}
	Active	T_{VD}	800	800	800	
	Blanking	T_{VB}	3	23	223	
Horizontal Section	Period	T_H	1303	1440	2047	T_{Clock}
	Active	T_{HD}	1280	1280	1280	
	Blanking	T_{HB}	23	160	767	

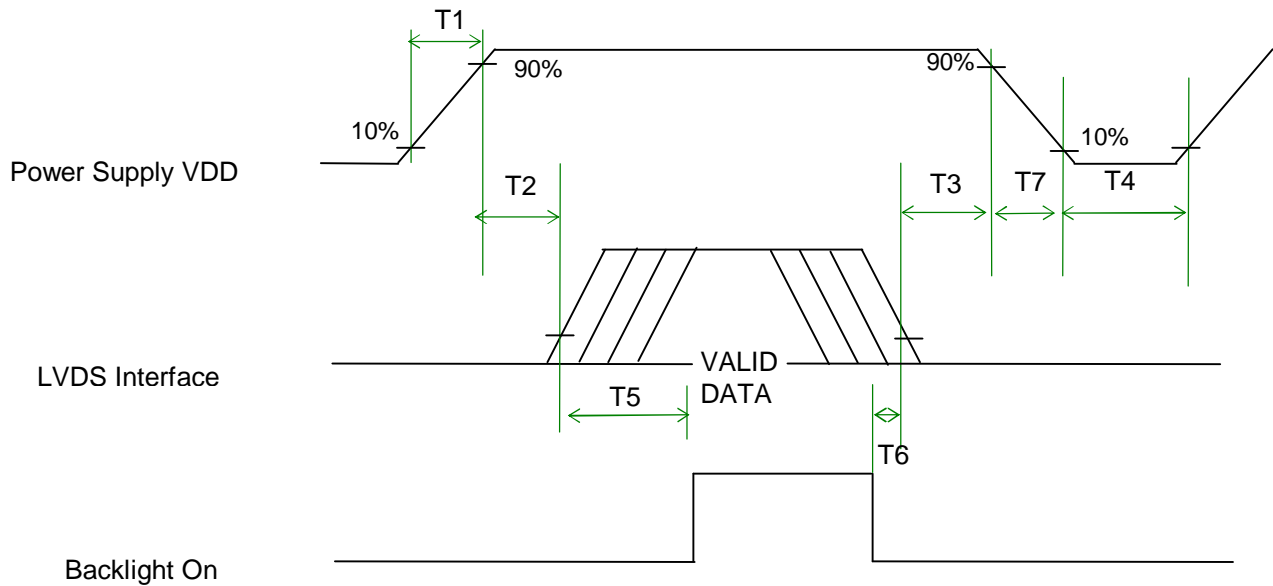
Note : DE mode only

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

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



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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	JAE
Type / Part Number	FI-XB30SL-HF10
Mating Housing/Part Number	F1-X30H
Mating Contact/Part Number	F1-XC3-1-15000

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



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8. Vibration and Shock Test

8.1 Vibration Test

Test Spec:

- I Test method: Non-Operation
- I Acceleration: 1.5G , sine wave
- I Frequency: 10 - 500Hz Random
- I Sweep: 0.5 octave/minute in each of three mutually perpendicular axes.

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: Half sine wave



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9. Reliability

Items	Required Condition	Note
Temperature Humidity Bias	40°C/90%,300Hr	
High Temperature Operation	50°C/20%,300Hr	
Low Temperature Operation	0°C,300Hr	
On/Off Test	25°C, ON/10 sec. OFF/10sec., 30,000 cycles	
Hot Storage	65°C/20% RH ,300 hours	
Cold Storage	-25°C/50% RH ,300 hours	
Thermal Shock Test	-20°C/30 min ,60°C/30 min 100cycles	
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)	Sinusoidal vibration, 1.5G zero-to-peak, 10 to 500 Hz, 0.5 octave/minute in each of three mutually perpendicular axes.	
ESD	Contact : ±8KV, operation, class B Air : ±15KV, operation, class B	Note 1

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

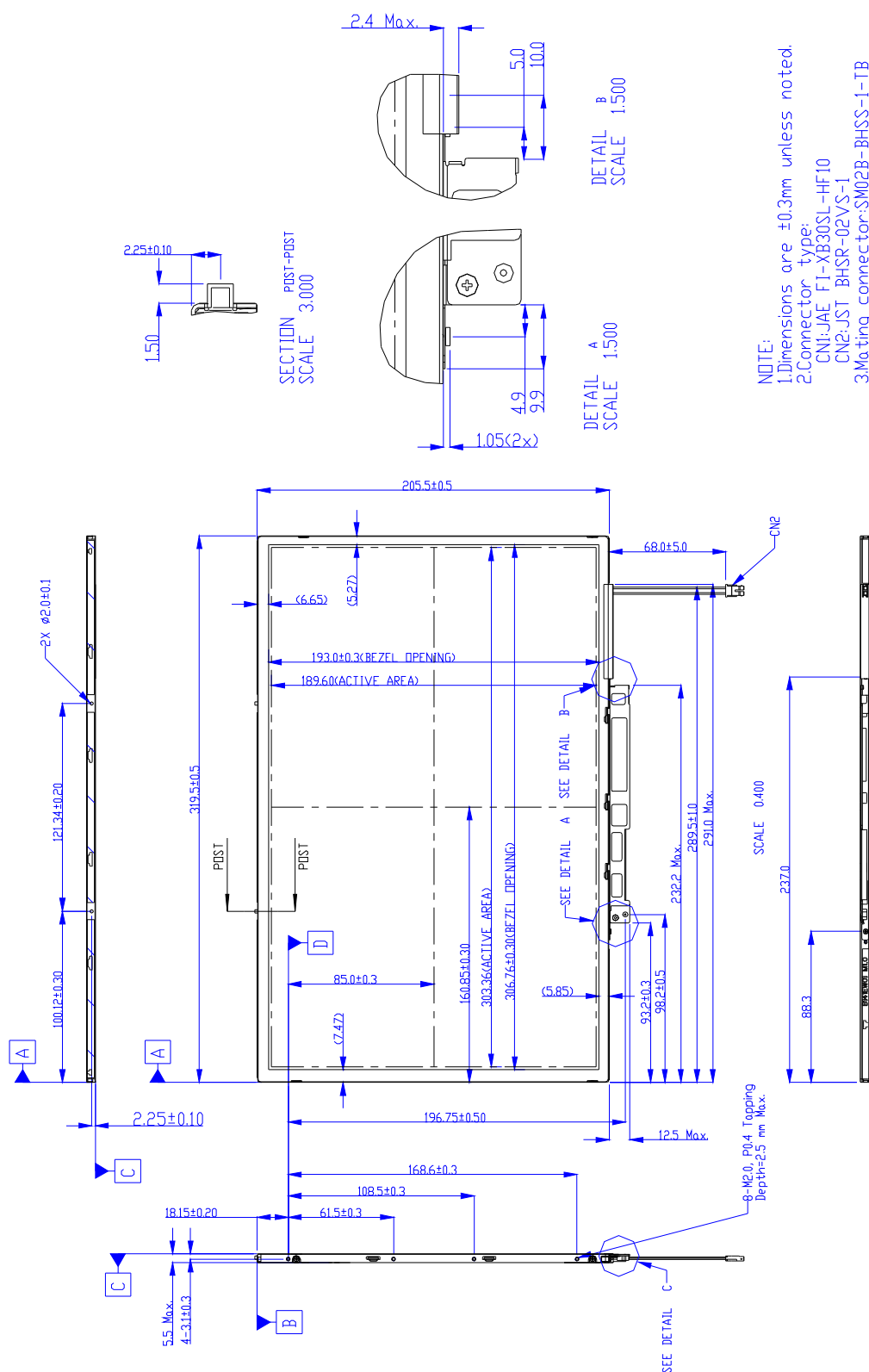


Fig 1-LCM outline dimensions (Front side)

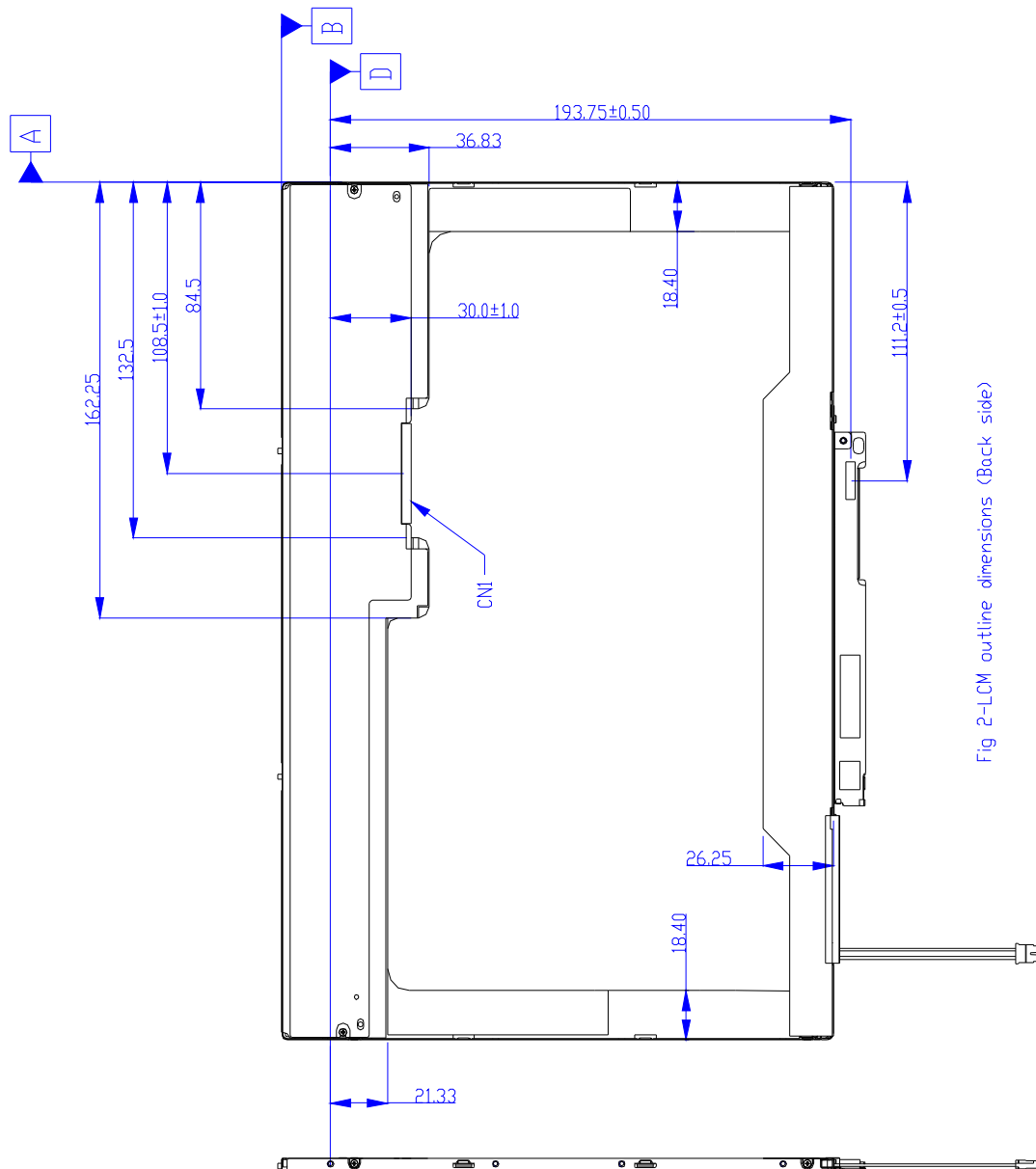


Fig 2-LCM outline dimensions (Back side)

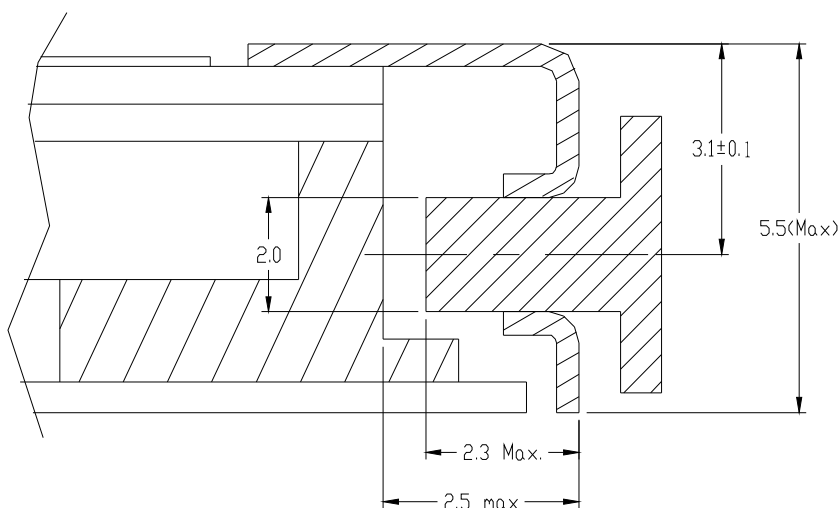
10.2 Screw Hole Depth and Center Position

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

Screw hole center location, from front surface = 3.1 ± 0.1 mm (See drawing)

Suggestions: Customers' Screw maximum length = 2.3 mm (See drawing)

Screw Torque: Maximum 2.5 kgf-cm





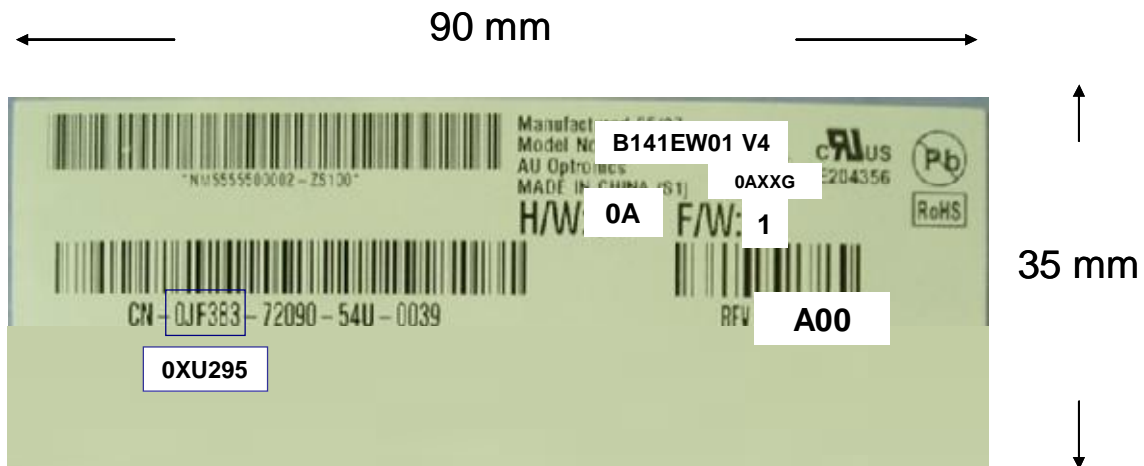
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11. Shipping and Package

11.1 Shipping Label Format

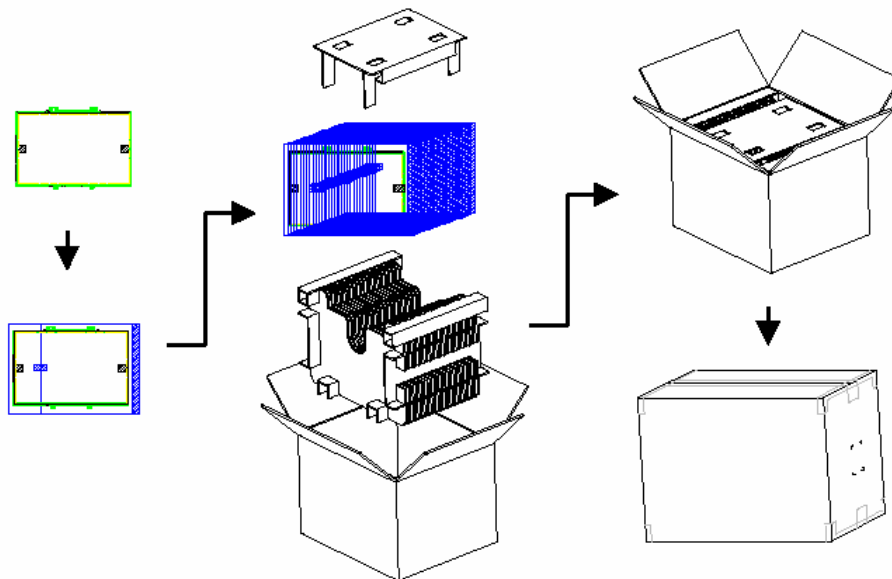


Inverter combination	Control code	H/W
Inverter maker: Sumida IC: Maxim	0AXXG	0A
Inverter maker: Foxconn IC: MPS	2AXXG	2A
Inverter maker: Foxconn IC: Maxim	4AXXG	4A

11.2. Carton package



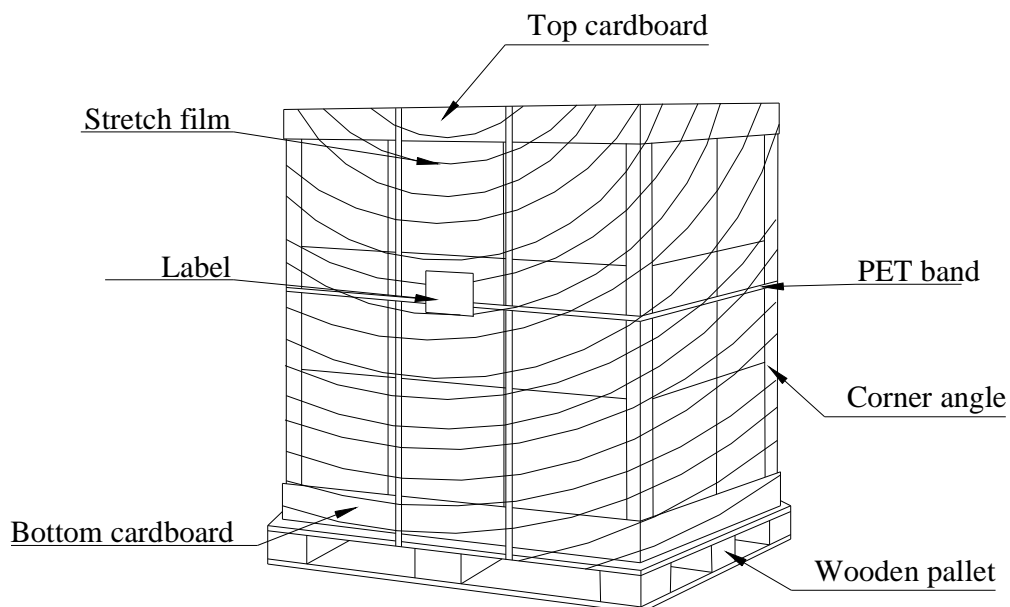
The outside dimension of carton is 454(L)mm* 388(W)mm* 352(H)mm, carton and cushion weight are 2920g.



11.3 Shipping package of palletizing

By air : 6 *4 layers, one pallet put 24 boxes, total 480 pcs module.

By sea : 6 *5 layers, one pallet put 30 boxes, total 600 pcs module.





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12. Appendix: EDID Description

H/W: 0A

HEX	FUNCTION	Value HEX	Value BIN	Value DEC
00	Header	00	00000000	0
01	Header	FF	11111111	255
02	Header	FF	11111111	255
03	Header	FF	11111111	255
04	Header	FF	11111111	255
05	Header	FF	11111111	255
06	Header	FF	11111111	255
07	Header	00	00000000	0
08	EISA manufacture code = 3 Character ID	06	00000110	6
09	EISA manufacture code (Compressed ASCII)	AF	10101111	175
0A	Panel Supplier Reserved – Product Code	44	01000100	68
0B	Panel Supplier Reserved – Product Code	14	00010100	20
0C	LCD module Serial No - Preferred but Optional ("0" if not used)	00	00000000	0
0D	LCD module Serial No - Preferred but Optional ("0" if not used)	00	00000000	0
0E	LCD module Serial No - Preferred but Optional ("0" if not used)	00	00000000	0
0F	LCD module Serial No - Preferred but Optional ("0" if not used)	00	00000000	0
10	Week of manufacture	01	00000001	1
11	Year of manufacture	10	00010000	16
12	EDID structure version # = 1	01	00000001	1
13	EDID revision # = 3	03	00000011	3
14	Video I/P definition = Digital I/P (80h)	80	10000000	128
15	Max H image size = (Rounded to cm)	1E	00011110	30
16	Max V image size = (Rounded to cm)	13	00010011	19
17	Display gamma = (gamma ×100)-100 Example: (2.2×100) – 100 = 120	78	01111000	120
18	Feature support (no DPMS, Active off, RGB, timing BLK 1)	0A	00001010	10



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19	Red/Green Low bit (RxRy/GxGy)	87	10000111	135
1A	Blue/White Low bit (BxBY/WxWy)	F5	11110101	245
1B	Red X	94	10010100	148
1C	Red Y	57	01010111	87
1D	Green X	4F	01001111	79
1E	Green Y	8C	10001100	140
1F	Blue X	27	00100111	39
20	Blue Y	27	00100111	39
21	White X	50	01010000	80
22	White Y	54	01010100	84
23	Established timings 1 (00h if not used)	00	00000000	0
24	Established timings 2 (00h if not used)	00	00000000	0
25	Manufacturer's timings (00h if not used)	00	00000000	0
26	Standard timing ID1 (01h if not used)	01	00000001	1
27	Standard timing ID1 (01h if not used)	01	00000001	1
28	Standard timing ID2 (01h if not used)	01	00000001	1
29	Standard timing ID2 (01h if not used)	01	00000001	1
2A	Standard timing ID3 (01h if not used)	01	00000001	1
2B	Standard timing ID3 (01h if not used)	01	00000001	1
2C	Standard timing ID4 (01h if not used)	01	00000001	1
2D	Standard timing ID4 (01h if not used)	01	00000001	1
2E	Standard timing ID5 (01h if not used)	01	00000001	1
2F	Standard timing ID5 (01h if not used)	01	00000001	1
30	Standard timing ID6 (01h if not used)	01	00000001	1
31	Standard timing ID6 (01h if not used)	01	00000001	1
32	Standard timing ID7 (01h if not used)	01	00000001	1
33	Standard timing ID7 (01h if not used)	01	00000001	1
34	Standard timing ID8 (01h if not used)	01	00000001	1
35	Standard timing ID8 (01h if not used)	01	00000001	1
36	Pixel Clock/10,000 (LSB)	E4	11100100	228
37	Pixel Clock/10,000 (MSB)	1B	00011011	27
38	Horizontal Active (lower 8 bits)	00	00000000	0
39	Horizontal Blanking (Thbp) (lower 8 bits)	A5	10100101	165
3A	Horizontal Active/Horizontal blanking (Thbp) (upper4:4 bits)	50	01010000	80
3B	Vertical Active	20	00100000	32
3C	Vertical Blanking (Tvbp) (DE Blanking typ. for DE only)	17	00010111	23



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	panels)			
3D	Vertical Active: Vertical Blanking (Tvbp) (upper4:4 bits)	30	00110000	48
3E	Horizontal Sync, Offset (Thfp)	30	00110000	48
3F	Horizontal Sync, Pulse Width	20	00100000	32
40	Vertical Sync, Offset (Tvfp) Sync Width	36	00110110	54
41	Horizontal Vertical Sync Offset/Width upper 2 bits	00	00000000	0
42	Horizontal Image Size	30	00110000	48
43	Vertical image Size	BE	10111110	190
44	Horizontal Image Size / Vertical image size	10	00010000	16
45	Horizontal Border = 0 (Zero for Notebook LCD)	00	00000000	0
46	Vertical Border = 0 (Zero for Notebook LCD)	00	00000000	0
47	Non-interlaced, Normal, no stereo, Separate sync, H/V pol Negatives, DE only note: LSB is set to “1” if panel is DE-timing only. H/V can be ignored.	19	00011001	25
48	Pixel Clock/10,000 (LSB)	E4	00000000	228
49	Pixel Clock/10,000 (MSB)	1B	00000000	27
4A	Horizontal Active = xxxx pixels (lower 8 bits)	00	00000000	0
4B	Horizontal Blanking (Thbp) = xxxx pixels (lower 8 bits)	A5	00000000	165
4C	Horizontal Active/Horizontal blanking (Thbp) (upper4:4 bits)	50	00000000	80
4D	Vertical Active = xxxx lines	20	00000000	32
4E	Vertical Blanking (Tvbp) = xxxx lines (DE Blanking typ. for DE only panels)	17	00000000	23
4F	Vertical Active : Vertical Blanking (Tvbp) (upper4:4 bits)	30	00000000	48
50	Horizontal Sync, Offset (Thfp) = xxxx pixels	30	00000000	48
51	Horizontal Sync, Pulse Width = xxxx pixels	20	00000000	32
52	Vertical Sync, Offset (Tvfp) = xx lines Sync Width = xx lines	36	00000000	54
53	Horizontal Vertical Sync Offset/Width upper 2 bits	00	00000000	0
54	Horizontal Image Size =xxx mm	30	00000000	48
55	Vertical image Size = xxx mm	BE	00000000	190
56	Horizontal Image Size / Vertical image size	10	00000000	16
57	Horizontal Border = 0 (Zero for Notebook LCD)	00	00000000	0
58	Vertical Border = 0 (Zero for Notebook LCD)	00	00000000	0
59	Module “A” Revision = Example: 00, 01, 02, 03, etc.	00	00000000	0
5A	Flag	00	00000000	0
5B	Flag	00	00000000	0



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5C	Flag	00	00000000	0
5D	Dummy Descriptor	FE	11111110	254
5E	Flag	00	00000000	0
5F	Dell P/N 1 st Character	58	01011000	88
60	Dell P/N 2 nd Character	55	01010101	85
61	Dell P/N 3 rd Character	32	00110010	50
62	Dell P/N 4 th Character	39	00111001	57
63	Dell P/N 5 th Character	35	00110101	53
64	LCD Supplier EEDID Revision #	03	00000011	3
65	Manufacturer P/N	42	01000010	66
66	Manufacturer P/N	31	00110001	49
67	Manufacturer P/N	34	00110100	52
68	Manufacturer P/N	31	00110001	49
69	Manufacturer P/N	45	01000101	69
6A	Manufacturer P/N	57	01010111	87
6B	Manufacturer P/N (If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	31	00110001	49
6C	Flag	00	00000000	0
6D	Flag	00	00000000	0
6E	Flag	00	00000000	0
6F	Data Type Tag:	FE	11111110	254
70	Flag	00	00000000	0
71	SMBUS Value	21	00100001	33
72	SMBUS Value	2E	00101110	46
73	SMBUS Value	39	00111001	57
74	SMBUS Value	41	01000001	65
75	SMBUS Value	5D	01011101	93
76	SMBUS Value	79	01111001	121
77	SMBUS Value	99	10011001	153
78	SMBUS Value = max nits (Typically = 00h)	FF	11111111	255
79	Number of LVDS receiver chips = '01' or '02'	01	00000001	1
7A	BIST Enable: Yes = '01' No = '00'	01	00000001	1
7B	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	0A	00001010	10
7C	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	20	00100000	32



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7D	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	20	00100000	32
7E	Extension flag (# of optional 128 EDID extension blocks to follow, Typ = 0)	00	00000000	0
7F	Checksum (The 1-byte sum of all 128 bytes in this EDID block shall = 0)	22	00000001	34

H/W: 2A

HEX	FUNCTION	Value HEX	Value BIN	Value DEC
00	Header	00	00000000	0
01	Header	FF	11111111	255
02	Header	FF	11111111	255
03	Header	FF	11111111	255
04	Header	FF	11111111	255
05	Header	FF	11111111	255
06	Header	FF	11111111	255
07	Header	00	00000000	0
08	EISA manufacture code = 3 Character ID	06	00000110	6
09	EISA manufacture code (Compressed ASCII)	AF	10101111	175
0A	Panel Supplier Reserved – Product Code	44	01000100	68
0B	Panel Supplier Reserved – Product Code	14	00010100	20
0C	LCD module Serial No - Preferred but Optional (“0” if not used)	00	00000000	0
0D	LCD module Serial No - Preferred but Optional (“0” if not used)	00	00000000	0
0E	LCD module Serial No - Preferred but Optional (“0” if not used)	00	00000000	0
0F	LCD module Serial No - Preferred but Optional (“0” if not used)	00	00000000	0
10	Week of manufacture	01	00000001	1
11	Year of manufacture	10	00010000	16
12	EDID structure version # = 1	01	00000001	1
13	EDID revision # = 3	03	00000011	3
14	Video I/P definition = Digital I/P (80h)	80	10000000	128



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15	Max H image size = (Rounded to cm)	1E	00011110	30
16	Max V image size = (Rounded to cm)	13	00010011	19
17	Display gamma = (gamma ×100)-100 Example: (2.2×100) – 100 = 120	78	01111000	120
18	Feature support (no DPMS, Active off, RGB, timing BLK 1)	0A	00001010	10
19	Red/Green Low bit (RxRy/GxGy)	87	10000111	135
1A	Blue/White Low bit (BxBY/WxWy)	F5	11110101	245
1B	Red X	94	10010100	148
1C	Red Y	57	01010111	87
1D	Green X	4F	01001111	79
1E	Green Y	8C	10001100	140
1F	Blue X	27	00100111	39
20	Blue Y	27	00100111	39
21	White X	50	01010000	80
22	White Y	54	01010100	84
23	Established timings 1 (00h if not used)	00	00000000	0
24	Established timings 2 (00h if not used)	00	00000000	0
25	Manufacturer's timings (00h if not used)	00	00000000	0
26	Standard timing ID1 (01h if not used)	01	00000001	1
27	Standard timing ID1 (01h if not used)	01	00000001	1
28	Standard timing ID2 (01h if not used)	01	00000001	1
29	Standard timing ID2 (01h if not used)	01	00000001	1
2A	Standard timing ID3 (01h if not used)	01	00000001	1
2B	Standard timing ID3 (01h if not used)	01	00000001	1
2C	Standard timing ID4 (01h if not used)	01	00000001	1
2D	Standard timing ID4 (01h if not used)	01	00000001	1
2E	Standard timing ID5 (01h if not used)	01	00000001	1
2F	Standard timing ID5 (01h if not used)	01	00000001	1
30	Standard timing ID6 (01h if not used)	01	00000001	1
31	Standard timing ID6 (01h if not used)	01	00000001	1
32	Standard timing ID7 (01h if not used)	01	00000001	1
33	Standard timing ID7 (01h if not used)	01	00000001	1
34	Standard timing ID8 (01h if not used)	01	00000001	1
35	Standard timing ID8 (01h if not used)	01	00000001	1
36	Pixel Clock/10,000 (LSB)	E4	11100100	228
37	Pixel Clock/10,000 (MSB)	1B	00011011	27



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38	Horizontal Active (lower 8 bits)	00	00000000	0
39	Horizontal Blanking (Thbp) (lower 8 bits)	A5	10100101	165
3A	Horizontal Active/Horizontal blanking (Thbp) (upper4:4 bits)	50	01010000	80
3B	Vertical Active	20	00100000	32
3C	Vertical Blanking (Tvbp) (DE Blanking typ. for DE only panels)	17	00010111	23
3D	Vertical Active: Vertical Blanking (Tvbp) (upper4:4 bits)	30	00110000	48
3E	Horizontal Sync, Offset (Thfp)	30	00110000	48
3F	Horizontal Sync, Pulse Width	20	00100000	32
40	Vertical Sync, Offset (Tvfp) Sync Width	36	00110110	54
41	Horizontal Vertical Sync Offset/Width upper 2 bits	00	00000000	0
42	Horizontal Image Size	30	00110000	48
43	Vertical image Size	BE	10111110	190
44	Horizontal Image Size / Vertical image size	10	00010000	16
45	Horizontal Border = 0 (Zero for Notebook LCD)	00	00000000	0
46	Vertical Border = 0 (Zero for Notebook LCD)	00	00000000	0
47	Non-interlaced, Normal, no stereo, Separate sync, H/V pol Negatives, DE only note: LSB is set to "1" if panel is DE-timing only. H/V can be ignored.	19	00011001	25
48	Pixel Clock/10,000 (LSB)	E4	00000000	228
49	Pixel Clock/10,000 (MSB)	1B	00000000	27
4A	Horizontal Active = xxxx pixels (lower 8 bits)	00	00000000	0
4B	Horizontal Blanking (Thbp) = xxxx pixels (lower 8 bits)	A5	00000000	165
4C	Horizontal Active/Horizontal blanking (Thbp) (upper4:4 bits)	50	00000000	80
4D	Vertical Active = xxxx lines	20	00000000	32
4E	Vertical Blanking (Tvbp) = xxxx lines (DE Blanking typ. for DE only panels)	17	00000000	23
4F	Vertical Active : Vertical Blanking (Tvbp) (upper4:4 bits)	30	00000000	48
50	Horizontal Sync, Offset (Thfp) = xxxx pixels	30	00000000	48
51	Horizontal Sync, Pulse Width = xxxx pixels	20	00000000	32
52	Vertical Sync, Offset (Tvfp) = xx lines Sync Width = xx lines	36	00000000	54
53	Horizontal Vertical Sync Offset/Width upper 2 bits	00	00000000	0
54	Horizontal Image Size =xxx mm	30	00000000	48
55	Vertical image Size = xxx mm	BE	00000000	190
56	Horizontal Image Size / Vertical image size	10	00000000	16



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57	Horizontal Border = 0 (Zero for Notebook LCD)	00	00000000	0
58	Vertical Border = 0 (Zero for Notebook LCD)	00	00000000	0
59	Module "A" Revision = Example: 00, 01, 02, 03, etc.	00	00000000	0
5A	Flag	00	00000000	0
5B	Flag	00	00000000	0
5C	Flag	00	00000000	0
5D	Dummy Descriptor	FE	11111110	254
5E	Flag	00	00000000	0
5F	Dell P/N 1 st Character	58	01011000	88
60	Dell P/N 2 nd Character	55	01010101	85
61	Dell P/N 3 rd Character	32	00110010	50
62	Dell P/N 4 th Character	39	00111001	57
63	Dell P/N 5 th Character	35	00110101	53
64	LCD Supplier EEDID Revision #	03	00000011	3
65	Manufacturer P/N	42	01000010	66
66	Manufacturer P/N	31	00110001	49
67	Manufacturer P/N	34	00110100	52
68	Manufacturer P/N	31	00110001	49
69	Manufacturer P/N	45	01000101	69
6A	Manufacturer P/N	57	01010111	87
6B	Manufacturer P/N (If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	31	00110001	49
6C	Flag	00	00000000	0
6D	Flag	00	00000000	0
6E	Flag	00	00000000	0
6F	Data Type Tag:	FE	11111110	254
70	Flag	00	00000000	0
71	SMBUS Value	25	00100101	37
72	SMBUS Value	33	00110011	51
73	SMBUS Value	3E	00111110	62
74	SMBUS Value	46	01000110	70
75	SMBUS Value	64	01100100	100
76	SMBUS Value	80	10000000	128
77	SMBUS Value	A0	10100000	160
78	SMBUS Value = max nits (Typically = 00h)	FF	11111111	255
79	Number of LVDS receiver chips = '01' or '02'	01	00000001	1



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7A	BIST Enable: Yes = '01' No = '00'	01	00000001	1
7B	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	0A	00001010	10
7C	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	20	00100000	32
7D	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	20	00100000	32
7E	Extension flag (# of optional 128 EDID extension blocks to follow, Typ = 0)	00	00000000	0
7F	Checksum (The 1-byte sum of all 128 bytes in this EDID block shall = 0)	FA	11011001	250

H/W: 4A

HEX	FUNCTION	Value HEX	Value BIN	Value DEC
00	Header	00	00000000	0
01	Header	FF	11111111	255
02	Header	FF	11111111	255
03	Header	FF	11111111	255
04	Header	FF	11111111	255
05	Header	FF	11111111	255
06	Header	FF	11111111	255
07	Header	00	00000000	0
08	EISA manufacture code = 3 Character ID	06	00000110	6
09	EISA manufacture code (Compressed ASCII)	AF	10101111	175
0A	Panel Supplier Reserved – Product Code	44	01000100	68
0B	Panel Supplier Reserved – Product Code	14	00010100	20
0C	LCD module Serial No - Preferred but Optional ("0" if not used)	00	00000000	0
0D	LCD module Serial No - Preferred but Optional ("0" if not used)	00	00000000	0
0E	LCD module Serial No - Preferred but Optional ("0" if not used)	00	00000000	0
0F	LCD module Serial No - Preferred but Optional ("0" if not used)	00	00000000	0



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10	Week of manufacture	01	00000001	1
11	Year of manufacture	10	00010000	16
12	EDID structure version # = 1	01	00000001	1
13	EDID revision # = 3	03	00000011	3
14	Video I/P definition = Digital I/P (80h)	80	10000000	128
15	Max H image size = (Rounded to cm)	1E	00011110	30
16	Max V image size = (Rounded to cm)	13	00010011	19
17	Display gamma = (gamma ×100)-100 Example: (2.2×100) – 100 = 120	78	01111000	120
18	Feature support (no DPMS, Active off, RGB, timing BLK 1)	0A	00001010	10
19	Red/Green Low bit (RxRy/GxGy)	87	10000111	135
1A	Blue/White Low bit (BxBY/WxWy)	F5	11110101	245
1B	Red X	94	10010100	148
1C	Red Y	57	01010111	87
1D	Green X	4F	01001111	79
1E	Green Y	8C	10001100	140
1F	Blue X	27	00100111	39
20	Blue Y	27	00100111	39
21	White X	50	01010000	80
22	White Y	54	01010100	84
23	Established timings 1 (00h if not used)	00	00000000	0
24	Established timings 2 (00h if not used)	00	00000000	0
25	Manufacturer's timings (00h if not used)	00	00000000	0
26	Standard timing ID1 (01h if not used)	01	00000001	1
27	Standard timing ID1 (01h if not used)	01	00000001	1
28	Standard timing ID2 (01h if not used)	01	00000001	1
29	Standard timing ID2 (01h if not used)	01	00000001	1
2A	Standard timing ID3 (01h if not used)	01	00000001	1
2B	Standard timing ID3 (01h if not used)	01	00000001	1
2C	Standard timing ID4 (01h if not used)	01	00000001	1
2D	Standard timing ID4 (01h if not used)	01	00000001	1
2E	Standard timing ID5 (01h if not used)	01	00000001	1
2F	Standard timing ID5 (01h if not used)	01	00000001	1
30	Standard timing ID6 (01h if not used)	01	00000001	1
31	Standard timing ID6 (01h if not used)	01	00000001	1
32	Standard timing ID7 (01h if not used)	01	00000001	1



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33	Standard timing ID7 (01h if not used)	01	00000001	1
34	Standard timing ID8 (01h if not used)	01	00000001	1
35	Standard timing ID8 (01h if not used)	01	00000001	1
36	Pixel Clock/10,000 (LSB)	E4	11100100	228
37	Pixel Clock/10,000 (MSB)	1B	00011011	27
38	Horizontal Active (lower 8 bits)	00	00000000	0
39	Horizontal Blanking (Thbp) (lower 8 bits)	A5	10100101	165
3A	Horizontal Active/Horizontal blanking (Thbp) (upper4:4 bits)	50	01010000	80
3B	Vertical Active	20	00100000	32
3C	Vertical Blanking (Tvbp) (DE Blanking typ. for DE only panels)	17	00010111	23
3D	Vertical Active: Vertical Blanking (Tvbp) (upper4:4 bits)	30	00110000	48
3E	Horizontal Sync, Offset (Thfp)	30	00110000	48
3F	Horizontal Sync, Pulse Width	20	00100000	32
40	Vertical Sync, Offset (Tvfp) Sync Width	36	00110110	54
41	Horizontal Vertical Sync Offset/Width upper 2 bits	00	00000000	0
42	Horizontal Image Size	30	00110000	48
43	Vertical image Size	BE	10111110	190
44	Horizontal Image Size / Vertical image size	10	00010000	16
45	Horizontal Border = 0 (Zero for Notebook LCD)	00	00000000	0
46	Vertical Border = 0 (Zero for Notebook LCD)	00	00000000	0
47	Non-interlaced, Normal, no stereo, Separate sync, H/V pol Negatives, DE only note: LSB is set to "1" if panel is DE-timing only. H/V can be ignored.	19	00011001	25
48	Pixel Clock/10,000 (LSB)	E4	00000000	228
49	Pixel Clock/10,000 (MSB)	1B	00000000	27
4A	Horizontal Active = xxxx pixels (lower 8 bits)	00	00000000	0
4B	Horizontal Blanking (Thbp) = xxxx pixels (lower 8 bits)	A5	00000000	165
4C	Horizontal Active/Horizontal blanking (Thbp) (upper4:4 bits)	50	00000000	80
4D	Vertical Active = xxxx lines	20	00000000	32
4E	Vertical Blanking (Tvbp) = xxxx lines (DE Blanking typ. for DE only panels)	17	00000000	23
4F	Vertical Active : Vertical Blanking (Tvbp) (upper4:4 bits)	30	00000000	48
50	Horizontal Sync, Offset (Thfp) = xxxx pixels	30	00000000	48
51	Horizontal Sync, Pulse Width = xxxx pixels	20	00000000	32
52	Vertical Sync, Offset (Tvfp) = xx lines	36	00000000	54



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	Sync Width = xx lines			
53	Horizontal Vertical Sync Offset/Width upper 2 bits	00	00000000	0
54	Horizontal Image Size =xxx mm	30	00000000	48
55	Vertical image Size = xxx mm	BE	00000000	190
56	Horizontal Image Size / Vertical image size	10	00000000	16
57	Horizontal Border = 0 (Zero for Notebook LCD)	00	00000000	0
58	Vertical Border = 0 (Zero for Notebook LCD)	00	00000000	0
59	Module "A" Revision = Example: 00, 01, 02, 03, etc.	00	00000000	0
5A	Flag	00	00000000	0
5B	Flag	00	00000000	0
5C	Flag	00	00000000	0
5D	Dummy Descriptor	FE	11111110	254
5E	Flag	00	00000000	0
5F	Dell P/N 1 st Character	58	01011000	88
60	Dell P/N 2 nd Character	55	01010101	85
61	Dell P/N 3 rd Character	32	00110010	50
62	Dell P/N 4 th Character	39	00111001	57
63	Dell P/N 5 th Character	35	00110101	53
64	LCD Supplier EEDID Revision #	03	00000011	3
65	Manufacturer P/N	42	01000010	66
66	Manufacturer P/N	31	00110001	49
67	Manufacturer P/N	34	00110100	52
68	Manufacturer P/N	31	00110001	49
69	Manufacturer P/N	45	01000101	69
6A	Manufacturer P/N	57	01010111	87
6B	Manufacturer P/N (If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	31	00110001	49
6C	Flag	00	00000000	0
6D	Flag	00	00000000	0
6E	Flag	00	00000000	0
6F	Data Type Tag:	FE	11111110	254
70	Flag	00	00000000	0
71	SMBUS Value	21	00100001	33
72	SMBUS Value	2F	00101111	47
73	SMBUS Value	3A	00111010	58
74	SMBUS Value	42	01000010	66



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75	SMBUS Value	5F	01011111	95
76	SMBUS Value	7B	01111011	123
77	SMBUS Value	9B	10011011	155
78	SMBUS Value = max nits (Typically = 00h)	FF	11111111	255
79	Number of LVDS receiver chips = '01' or '02'	01	00000001	1
7A	BIST Enable: Yes = '01' No = '00'	01	00000001	1
7B	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	0A	00001010	10
7C	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	20	00100000	32
7D	(If <13 char, then terminate with ASCII code 0Ah, set remaining char = 20h)	20	00100000	32
7E	Extension flag (# of optional 128 EDID extension blocks to follow, Typ = 0)	00	00000000	0
7F	Checksum (The 1-byte sum of all 128 bytes in this EDID block shall = 0)	19	11111000	25