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Version 1.0

Technical White Paper

IDK-101R-44WSI1

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1 General Description and Features

10 inch is Amorphous-TFT-LCD (Thin Film Transistor Liquid Crystal Display) module. This module is composed of a 10" TFT-LCD panel, a driving circuit and backlight system. This TFT LCD has a 10 (17:10) inch diagonally measured active display area with WSVGA (1024 horizontal by 600 vertical pixel) resolution.

2 Physical specifications

Item	Specifications	unit
LCD size	10 inch (Diagonal)	
Resolution	1024 x 3(RGB) x 600	dot
Pixel pitch	0.21525(W) x 0.21525(H)	mm
Active area	220.42(W) x 129.15(H)	mm
Module size	235.0(W) x 145.8(H) x 6.3(D)	mm
Surface treatment	Antiglare, Hard-Coating (3H) with EWV film	
Color arrangement	RGB-stripe	
interface	LVDS	
Brightness	550(Typ.)	cd/m ²
Weight	330(Typ)	g

3. ABSOLUTE MAX. RATINGS

(GND = AVSS = 0V)

Item	Symbol	Val	ues		Note
item	Symbol	Min.	Max.		
Power voltage	VLED	-0.3	6.0	V	
	VDD	-0.3	6.0	V	
Operation temperature	Тор	-20	70	°C	
Storage temperature	Tst	-30	80	°C	

4. Mechanical Information

Item		Min.	Тур.	Max.	UNIT
Module size	Horizontal	234.5	235	235.5	mm
	Vertical	145.3	145.8	146.3	mm
	Depth	-	6.3	6.6	mm

5 ELECTRICAL CHARACTERISTICS 5-1 Typical Operation Conditions

Item	Symbol		Values			Note
item	Symbol	Min.	Тур.	Max.		Note
Power voltage	VDD	3.0	3.3	3. 6	V	Note1
Current of power supply	IDD	-	0.3	-	А	VDD=3.3V Black pattern

Note 1: VDD-dip condition:

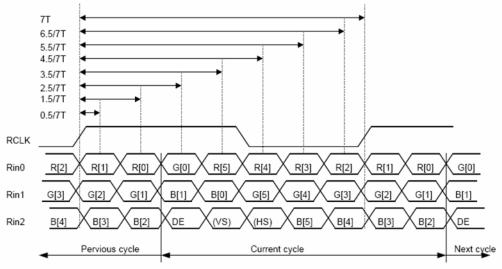
when 2.7V ${\leq}$ VDD<3.0V , td ${\leq}$ 10ms.

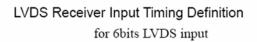
 $\text{VDD}\!>\!3.0\text{V}$, VDD-dip condition should be same as VDD-turn-con Condition.

5-2 Switching Characteristics for LVDS Receiver

Item	Symbol	Min.	Тур.	Max.	Unit	Condition
Differential Input High Threshold	∨th			100	mV	VCM=1.2V
Differential Input Low Threshold	∨tl	-100			mV	
Input current	IIN	-10		+10	uA	
Differential input ∀oltage	VID	0.1		0.6	V	
Common Mode Voltage Offset	VCM	(VID /2)	1.25	1.8-0.4-(VID /2)	V	

5-3 Bit Mapping & Interface Definition





6. Optical Specifications

ltem	Symbol	Condition	Values			Unit	Note	
nem	Symbol	Condition	Min.	тур.	Max.	Unit	Note	
	θL		60	70				
Viewing angle	θR	(00 > 10)	60	70		doarroo	Note1	
Viewing angle	θU	(CR≧10)	40	50		degree	Note2	
	θD		50	60				
Bosponso timo	TR			5	7	msec	Note3	
Response time	TF			20	28	msec	Notes	
Contrast ratio	CR		400	500			Note2	
Color chromaticity	WX	Normal $\theta = \Phi = 0^{\circ}$		0.31			Note1	
Color chromaticity	WY			0.33			Note4	
Luminance	L		440	550		cd/m ²	Note4	
Luminance uniformity	YU		70			%	Note5	

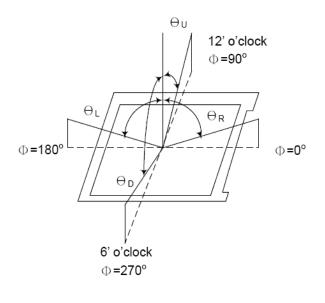
6.1 Measuring surrounding

- dark room
- LED current : IL=160mA
- Ambient temperature : 25±2oC
- 15min. Warm-up time.

6.2 Measuring Equipment

The optical characteristics should be measured in dark room. After 30 minutes operation, the optical properties are measured at the center point of the LCD screen. (Response time is measured by Photo detector TOPCON BM-7 of view : 1° / Height : 120mm.)

Note 1 : Definition of viewing angle range

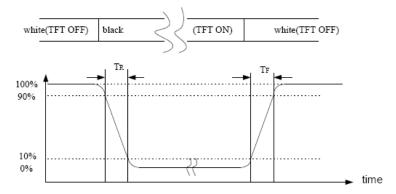


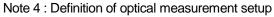
Note 2 : Definition of Contrast Ratio (CR) : measured at the center point of panel

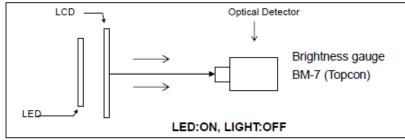
CR = -

Luminance with all pixels black

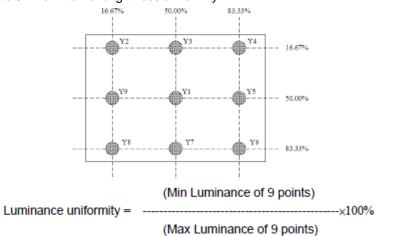
Note 3 : Definition of Response time : Sum of TR and T







Note 5 : Definition of brightness uniformity



7. INTERFACE

7.1 TFT LCD Module

CN1 (Input signal): FI-XB30SL-HF10 (JAE or equivalent)

Pin No.	Symbol	Description	Note		
1	GND	Ground			
2	VDD	3.3V Power			
3	VDD	3.3V Power			
4	V_EDID	3.3V Power for EDID			
5	NC	No connection			
6	CLK_EDID	EDID Clock Input			
7	DATA_EDID	EDID Data Input			
8	RXIN0-	LVDS Signal - channel0-			
9	RXIN0+	LVDS Signal+ channel0+			
10	GND	Ground			
11	RXIN1-	Data Input channel1-			
12	RXIN1+	Data Input channel1+			
13	GND	Ground			
14	RXIN2-	Data Input channel2-			
15	RXIN2+	Data Input channel2+			
16	GND	Ground			
17	RXCLKIN-	Data Input CLK-			
18	RXCLKIN+	Data Input CLK+			
19	GND	Ground			
20	NC	No connection			
21	NC	No connection			
22	GND	Ground			
23	GND	Ground			
24	NC	No connection			
25	NC	No connection			
26	NC	No connection			
27	NC	No connection			
28	NC	No connection			
29	NC	No connection			
30	NC	No connection			

CN2(LED backlight): BHSR-02VS-1 (JST or equivalent)

Pin No.	Symbol	Description	Note
1	А	Anode for LED backlight (+18.9∨, 160mA)	
2	К	Cathode for LED backlight	

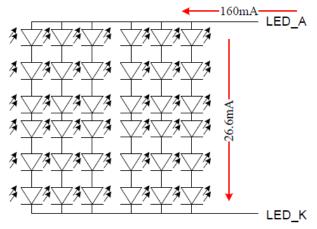
CN3(LED backlight Driver): FPHTI-104TTW000(Kingfont or equivalent)

Pin No.	Symbol	Description	Note
1	+ 12∨	Voltage for LED circuit (+12∨)	
2	LED_EN	LED BLU ON/OFF	
3	GND	Power ground	
4	PWM	Adjust the LED brightness by PWM	

8. Backlight Driving Conditions

SYMBOL	MIN	TYP	MAX	UNIT	NOTE
VIED	٩	10	12	V	
VLED	9	12	15	v	
LED		160		mA	Note1
		50K		Hr	Note2
I _{+12V}		260		100 A	T05%0
(+12V)	-	360		mA	Ta=25°C
	VLED ILED I _{+12V}	VLED 9 ILED I _{+12V}	VLED 9 12 ILED 160 50K I _{+12V} 360	VLED 9 12 13 ILED 160 50K I_+12V 360	VLED 9 12 13 V ILED 160 mA 50K Hr I_+12V 360 mA

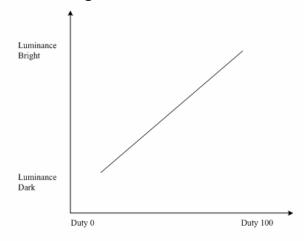
Note 1: There are 3 Groups LED shown as below , VLEDA-LEDK=18.9V ,Ta=25 $^\circ\!\mathrm{C}$

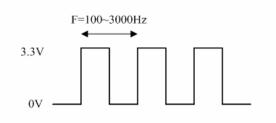


Note2: Condition: Ta=25°C, continuous lighting Life time is estimated data. Definitions of failure:

- 1. LCM brightness becomes half of the minimum value.
- 2. LED doesn't light normally.

PWM Dimming Control

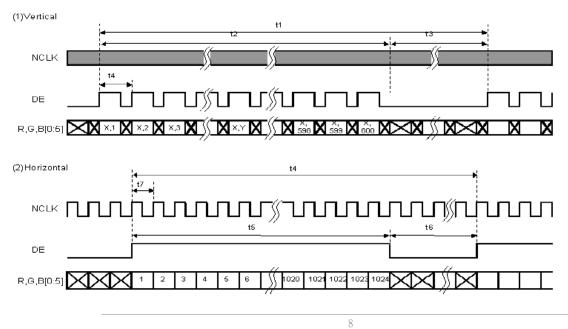




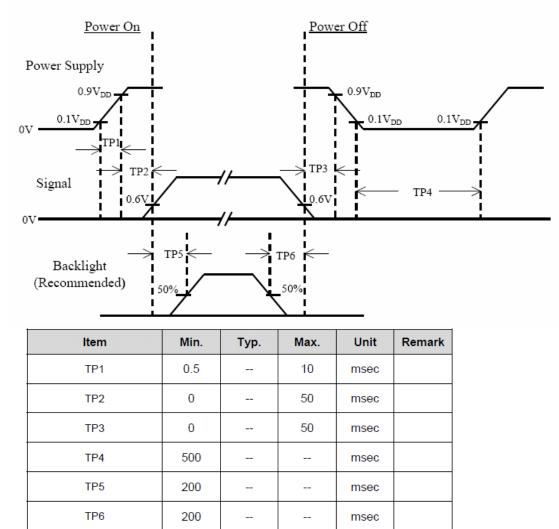
9. Interface Timing (DE mode)

Item	Symbol	Min.	Тур.	Max.	Unit
Frame Rate		55	60	65	Hz
Frame Period	t1	612	625	638	line
Vertical Display Time	t2	600	600	600	line
Vertical Blanking Time	t3	12	25	38	line
1 Line Scanning Time	t4	1160	1200	1240	clock
Horizontal Display Time	t5	1024	1024	1024	clock
Horizontal Blanking Time	t6	136	176	216	clock
Clock Rate	t7	39	45	51.42€	MHz

Timing Diagram of Interface Signal (DE mode)



10. Power On/Off Sequence



Note :

(1) The supply voltage of the external system for the module input should be the same as the definition of VDD.

(2) Apply the lamp voltage within the LCD operation range. When the back-light turns on before the LCD operation or the LCD turns off before the back-light turns off, the display may momentarily become white.
 (3) In case of VDD = off level, please keep the level of input signal on the low or keep a high impedance.

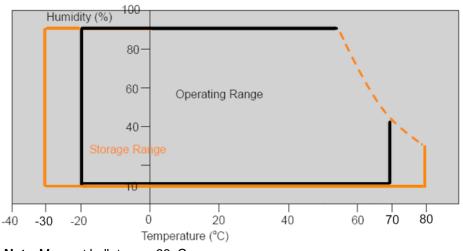
(4) TP4 should be measured after the module has been fully discharged between power off and on period.

(5) Interface signal shall not be kept at high impedance when the power is on.

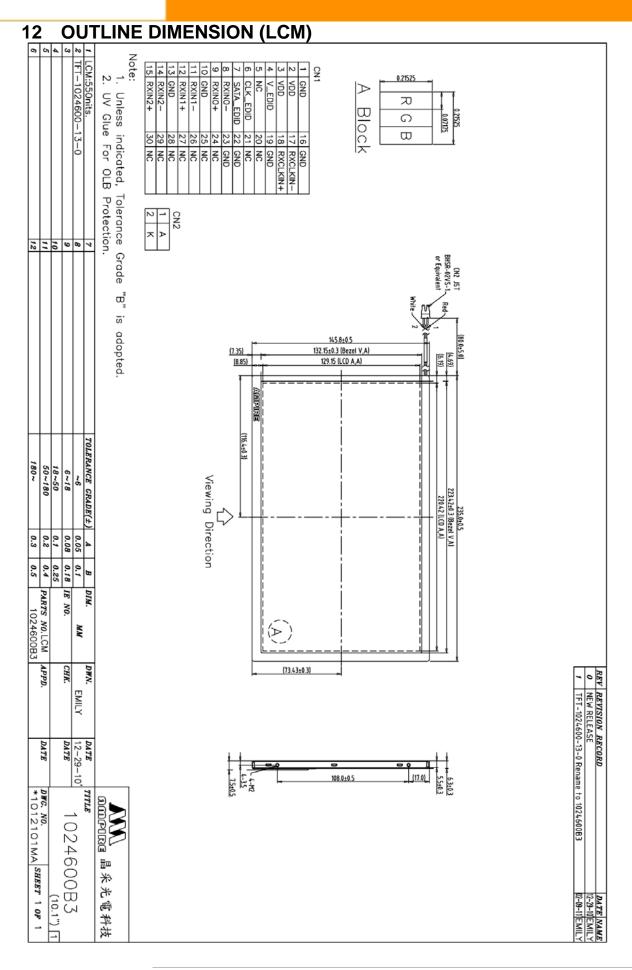
11. RELIABILITY TEST CONDITIONS

Item	Test Conditions	Note
High Temperature Storage	Ta = 80℃ 240 hrs	
Low Temperature Storage	Ta = -30℃ 240 hrs	
High Temperature Operation	Ts = 70℃ 240 hrs	
Low Temperature Operation	Ta = -20℃ 240 hrs	
Thermal Shock	-30℃ /30 min ~ +80℃ /30 min 100 cycles	

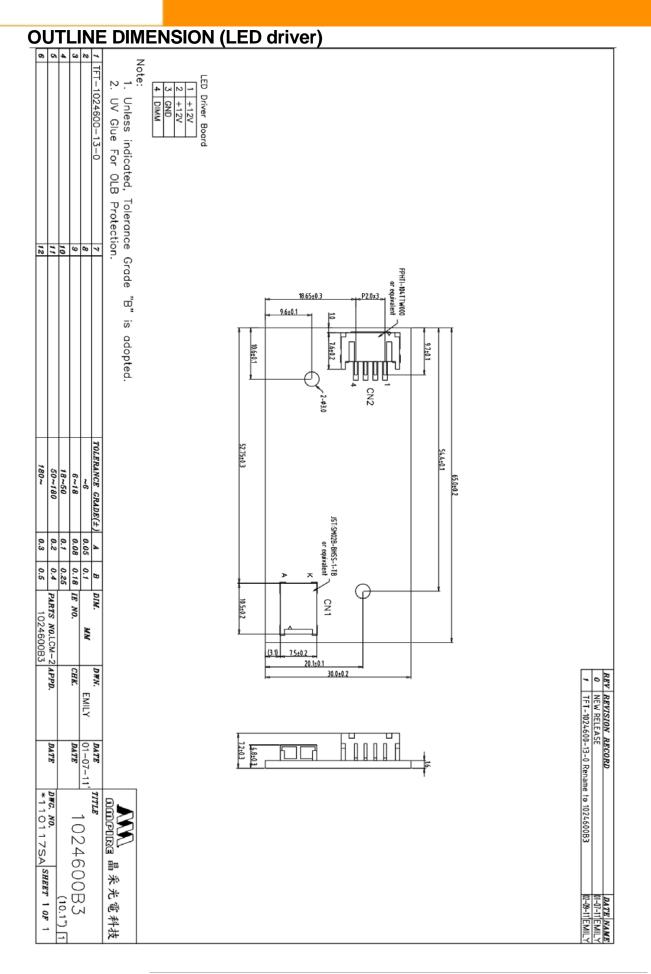
Storage / Operating temperature



Note .Max wet bulb temp.=39oC



on (× 4	A (7 LCM:550nits.	2. UV Glue For OLB	ss indicated,		8 RXINO- 23 GND 9 RXINO+ 24 NC 10 GND 25 NC 11 RXIN1- 26 NC		A Block		e 02525 -	
68	10	10	0	• •	Protection.	Tolerance Grade "B" is adopted.	CN2 CN2 K				.16		
180~	50~180	18~50	6~18	TOLERANCE GRADE(±)				Back			*		
+	0.2		0.08	(±) A				View				Ĺ	
0 5 PA			0.18 15	B D	1			1<				٥	
1034600B3			N	DIM.								(81,4±0.5)	
APPD.		~							(44.8±2.0)		White 2	Red	REV REVISION RECORD 0 NEW RELEASE J TFT-1024600-13-0 R
DAIS		2011 A 20	DATE	DATE	1						2 or Equivalent		r <i>æcor.</i> ASE 500–13–0 Renar
*1012102MA SHEET 1 OF	ner vo		4 1024600B3	TITLE	വണം							-	REVISION RECORD DATE NAME NEW RELEASE 12-29-10 EMILY TFT-1024600-13-0 Rename to 1024600B3 12-09-11 EMILY



14. EDID TABLE

Byte#	Byte#	Field Name & Comments	Value	Value	Value
(Decimal)	(HEX)	Field Name & Comments	(HEX)	(BIN)	(DEC)
0	0	Header	00	00000000	0
1	1	Header	FF	11111111	255
2	2	Header	FF	11111111	255
3	3	Header	FF	11111111	255
4	4	Header	FF	111111111	255
5	5	Header	FF	11111111	255
6	6	Header	FF	11111111	255
7	7	Header	00	00000000	0
8	8	EISA Manufacture Code LSB (3 character ID = HSD)	22	00100010	34
9	9	Compressed ASCII	64	01100100	100
10	0A	Product Code "1001"	E9	11101001	233
11	0B	Hex, LSB first	03	00000011	3
12	0C	LCD module Serial No - Preferred but Optional	00	00000000	0
13	0D	LCD module Serial No - Preferred but Optional	00	00000000	0
14	0E	LCD module Serial No - Preferred but	00	00000000	0
15	0F	Optional LCD module Serial No – Preferred but	00	00000000	0
		Optional			
16	10	Week of manufacture=18	12	00010010	18
17	11	Year of manufacture = 2008	12	00010010	18
18	12	EDID Structure Version # = 1	01	00000001	1
19	13	EDID revision # = 3	03	00000011	3
20	14	Video input definition = Digital input, CRGB	80	1000000	128
21	15	Max H image size = 22cm	16	00010110	22
22	16	Max V image size = 13cm	0D	00001101	13
23	17	Display Gamma = 2.2	78	01111000	120
24	18	Feature support (DPMS) = Active off, RGB color	0A	00001010	10
25	19	Red/green low bits (10000110)	86	10000110	134
26	1A	Blue/white low bits (00100110)	26	00100110	38
27	1B	Red x , Red x = 0.58	94	10010100	148
28	1C	Red y , Red y = 0.34	57	01010111	87
29	1D	Green x, Green x = 0.317	51	01010001	81
30	1E	Green y, Green y = 0.564	90	10010000	144
31	1F	Di	07		39
		Blue x , Blue x = 0.152	27	00100111	
Byte#	Byte#		27 Value	00100111 Value	Value
Byte# (Decimal)		Field Name & Comments		Value	
(Decimal)	Byte# (HEX)	Field Name & Comments	Value (HEX)	Value (BIN)	Value (DEC)
(Decimal) 32	Byte# (HEX) 20	Field Name & Comments Blue y , Blue y = 0.131	Value (HEX) 21	Value (BIN) 00100001	Value (DEC) 33
(Decimal) 32 33	Byte# (HEX) 20 21	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31	Value (HEX) 21 4F	Value (BIN) 00100001 01001111	Value (DEC) 33 79
(Decimal) 32 33 34	Byte# (HEX) 20 21 22	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y , White y = 0.33	Value (HEX) 21 4F 54	Value (BIN) 00100001 01001111 01010100	Value (DEC) 33 79 84
(Decimal) 32 33 34 35	Byte# (HEX) 20 21 22 23	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y , White y = 0.33 Established timing 1	Value (HEX) 21 4F 54 00	Value (BIN) 00100001 01001111 01010100 00000000	Value (DEC) 33 79 84 0
(Decimal) 32 33 34 35 36	Byte# (HEX) 20 21 22 23 24	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y . White y = 0.33 Established timing 1 Established timing 2	Value (HEX) 21 4F 54 00 00	Value (BIN) 00100001 01001111 01010100 00000000 000000	Value (DEC) 33 79 84 0 0
(Decimal) 32 33 34 35 36 37	Byte# (HEX) 20 21 22 23 24 25	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y , White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings	Value (HEX) 21 4F 54 00 00 00	Value (BIN) 00100001 01001111 01010100 00000000 000000	Value (DEC) 33 79 84 0 0 0
(Decimal) 32 33 34 35 36 37 38	Byte# (HEX) 20 21 22 23 24 25 26	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y . White y = 0.33 Established timing 1 Established timing 2	Value (HEX) 21 4F 54 00 00 00 00 01	Value (BIN) 00100001 01001111 010100 00000000 000000	Value (DEC) 33 79 84 0 0 0 1
(Decimal) 32 33 34 35 36 37 38 39	Byte# (HEX) 20 21 22 23 24 25 26 27	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y , White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings Standard timing #1 was not used	Value (HEX) 21 4F 54 00 00 00 00 01 01	Value (BIN) 00100001 01001111 01010100 00000000 000000	Value (DEC) 33 79 84 0 0 0 1 1
(Decimal) 32 33 34 35 36 37 38 39 40	Byte# (HEX) 20 21 22 23 24 25 26 27 28	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y , White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings	Value (HEX) 21 4F 54 00 00 00 00 01 01 01	Value (BIN) 00100001 01001111 01010100 00000000 000000	Value (DEC) 33 79 84 0 0 0 1 1 1
(Decimal) 32 33 34 35 36 37 38 39 40 41	Byte# (HEX) 20 21 22 23 24 25 26 27 28 29	Field Name & Comments Blue y, Blue y = 0.131 White x, White x = 0.31 White y, White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings Standard timing #1 was not used Standard timing #2 was not used	Value (HEX) 21 4F 54 00 00 00 01 01 01 01	Value (BIN) 00100001 01001111 01010100 00000000 000000	Value (DEC) 33 79 84 0 0 0 1 1 1 1
(Decimal) 32 33 34 35 36 37 38 39 40 41 42	Byte# (HEX) 20 21 22 23 24 25 26 27 26 27 28 29 2A	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y , White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings Standard timing #1 was not used	Value (HEX) 21 4F 54 00 00 00 00 01 01 01 01 01	Value (BIN) 00100001 01001111 01010100 00000000 000000	Value (DEC) 33 79 84 0 0 0 1 1 1 1 1 1
(Decimal) 32 33 34 35 36 37 38 39 40 41 41 42 43	Byte# (HEX) 20 21 22 23 24 25 26 27 28 29 2A 29 2A 2B	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y , White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings Standard timing #1 Was not used Standard timing #2 Was not used	Value (HEX) 21 4F 54 00 00 00 01 01 01 01 01 01 01 01	Value (BIN) 00100001 01001111 01010000000 00000000	Value (DEC) 33 79 84 0 0 0 1 1 1 1 1 1 1 1
(Decimal) 32 33 34 35 36 37 38 39 40 41 42 43 44	Byte# (HEX) 20 21 22 23 24 25 26 27 28 29 2A 29 2A 2B 2C	Field Name & Comments Blue y, Blue y = 0.131 White x, White x = 0.31 White y, White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings Standard timing #1 was not used Standard timing #2 was not used	Value (HEX) 21 4F 54 00 00 00 01 01 01 01 01 01 01 01 01	Value (BIN) 00100001 01001111 0101100 00000000 000000	Value (DEC) 33 79 84 0 0 0 1 1 1 1 1 1
(Decimal) 32 33 34 35 36 37 38 39 40 41 41 42 43	Byte# (HEX) 20 21 22 23 24 25 26 27 28 29 2A 29 2A 2B	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y . White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings Standard timing #1 was not used Standard timing #2 was not used Standard timing #3 was not used	Value (HEX) 21 4F 54 00 00 00 01 01 01 01 01 01 01 01 01 01	Value (BIN) 00100001 01001111 01010000000 00000000	Value (DEC) 33 79 84 0 0 0 1 1 1 1 1 1 1 1 1
(Decimal) 32 33 34 35 36 37 38 39 40 41 42 43 44 45	Byte# (HEX) 20 21 22 23 24 25 26 27 28 29 24 25 26 27 28 29 2A 2B 2C 2D	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y , White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings Standard timing #1 Was not used Standard timing #2 Was not used	Value (HEX) 21 4F 54 00 00 00 01 01 01 01 01 01 01 01 01	Value (BIN) 00100001 01001111 010100 0000000 000000	Value (DEC) 33 79 84 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1
(Decimal) 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	Byte# (HEX) 20 21 22 23 23 24 25 26 27 28 29 2A 29 2A 29 2A 2B 2C 2D 2E	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y . White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings Standard timing #1 was not used Standard timing #2 was not used Standard timing #3 was not used	Value (HEX) 21 4F 54 00 00 00 01 01 01 01 01 01 01 01 01 01	Value (BIN) 00100001 01000111 010100 00000000 000000	Value (DEC) 33 79 84 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(Decimal) 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	Byte# (HEX) 20 21 22 23 24 25 26 27 28 29 2A 28 29 2A 28 29 2A 2B 2C 2C 2D 2E 2F	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y , White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings Standard timing #1 Was not used Standard timing #2 Was not used Standard timing #3 Standard timing #4 Was not used Standard timing #4 Was not used Standard timing #5 Was not used	Value (HEX) 21 4F 54 00 00 00 01 01 01 01 01 01 01 01 01 01	Value (BIN) 00100001 01001111 010100 00000000 000000	Value (DEC) 33 79 84 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(Decimal) 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	Byte# (HEX) 20 21 22 23 24 25 26 27 28 29 2A 28 29 2A 2B 2C 2D 2E 2F 30	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y , White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings Standard timing #1 Was not used Standard timing #2 Was not used Standard timing #3 Standard timing #4 Was not used Standard timing #4 Was not used Standard timing #5 Was not used	Value (HEX) 21 4F 54 00 00 00 01 01 01 01 01 01 01 01 01 01	Value (BIN) 00100001 01001111 0101000000 00000000 000000	Value (DEC) 33 79 84 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(Decimal) 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	Byte# (HEX) 20 21 22 23 24 25 26 27 28 29 24 25 26 27 28 29 2A 2B 2C 2D 2E 2F 30 31	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y . White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings Standard timing #1 Was not used Standard timing #2 Was not used Standard timing #4 Was not used Standard timing #5 Was not used Standard timing #5 Was not used Standard timing #5 Was not used	Value (HEX) 21 4F 54 00 00 00 01 01 01 01 01 01 01 01 01 01	Value (BIN) 00100001 01001111 0101100 00000000 000000	Value (DEC) 33 79 84 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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(Decimal) 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	Byte# (HEX) 20 21 22 23 24 25 26 27 28 29 2A 29 2A 29 2A 2B 2C 2D 2E 2F 30 31 32 33	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y . White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings Standard timing #1 Was not used Standard timing #2 Was not used Standard timing #4 Was not used Standard timing #5 Was not used Standard timing #6 Was not used Standard timing #7 Was not used	Value (HEX) 21 4F 54 00 00 00 01 01 01 01 01 01 01 01 01 01	Value (BIN) 00100001 01001111 0101100 00000000 000000	Value (DEC) 33 79 84 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(Decimal) 32 33 34 35 36 37 38 39 40 41 41 42 43 44 45 46 47 48 49 50 51 52	Byte# (HEX) 20 21 22 23 24 25 26 27 28 29 2A 28 29 2A 28 29 2A 2B 2C 2D 2E 2F 30 31 32 33 34	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y . White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings Standard timing #1 Was not used Standard timing #2 Was not used Standard timing #4 Was not used Standard timing #5 Was not used Standard timing #6 Was not used Standard timing #7 Was not used	Value (HEX) 21 4F 54 00 00 00 01 01 01 01 01 01 01 01 01 01	Value (BIN) 00100001 01001111 0101100 00000000 000000	Value (DEC) 33 79 84 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(Decimal) 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	Byte# (HEX) 20 21 22 23 24 25 26 27 28 29 2A 29 2A 29 2A 2B 2C 2D 2E 2F 30 31 32 33 34 35	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y . White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings Standard timing #1 Was not used Standard timing #2 Standard timing #3 Was not used Standard timing #4 Standard timing #5 Was not used Standard timing #5 Was not used Standard timing #7 Was not used	Value (HEX) 21 4F 54 00 00 00 01 01 01 01 01 01 01 01 01 01	Value (BIN) 00100001 01000111 010100 0000000 000000	Value (DEC) 33 79 84 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(Decimal) 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	Byte# (HEX) 20 21 22 23 23 24 25 26 27 28 29 2A 29 2A 29 2A 29 2A 20 2C 2D 2E 2F 30 31 32 33 33 4 35 36	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y . White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings Standard timing #1 Was not used Standard timing #2 Standard timing #3 Was not used Standard timing #4 Was not used Standard timing #5 Was not used Standard timing #5 Was not used Standard timing #5 Was not used Standard timing #6 Was not used Standard timing #7 Was not used Standard timing #8 Was not used	Value (HEX) 21 4F 54 00 00 00 01 01 01 01 01 01 01 01 01 01	Value (BIN) 00100001 010001111 010100 0000000 000000	Value (DEC) 33 79 84 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(Decimal) 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	Byte# (HEX) 20 21 22 23 23 24 25 26 27 28 29 2A 29 2A 29 2A 29 2A 29 2A 20 2C 2D 2E 2F 30 31 32 33 33 34 35 36 37	Field Name & Comments Blue y , Blue y = 0.131 White x . White x = 0.31 White y . White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings Standard timing #1 Standard timing #2 Was not used Standard timing #3 Standard timing #4 Was not used Standard timing #7 Was not used Standard timing #7 Was not used Standard timing #7 Was not used Standard timing #8 Was not used Standard timing #7 Was not used Standard timing #8 Was not used Detailed timing/monitor (descriptor #1) 1024x600 @60Hz: Pixel Clock = 45 MHz Horizontal active=1024 pixels (L8b)	Value (HEX) 21 4F 54 00 00 00 01 01 01 01 01 01 01 01 01 01	Value (BIN) 00100001 010001111 010100 0000000 000000	Value (DEC) 33 79 84 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(Decimal) 32 33 34 35 36 37 38 39 40 41 42 43 44 45 44 45 46 47 48 49 50 51 52 53 54 55 56	Byte# (HEX) 20 21 22 23 24 25 26 27 28 29 2A 28 29 2A 2B 2C 2D 2E 2F 30 31 32 33 34 35 36 37 38	Field Name & Comments Blue y , Blue y = 0.131 White x , White x = 0.31 White y , White y = 0.33 Established timing 1 Established timing 2 Manufacturer's timings Standard timing #1 was not used Standard timing #2 Standard timing #3 was not used Standard timing #4 was not used Standard timing #5 Was not used Standard timing #6 was not used Standard timing #7 was not used Standard timing #8 was not used Standard timing #7 Was not used Standard timing #8 Was not used Standard timing #8 Was not used Standard timing #8 Was not us	Value (HEX) 21 4F 54 00 00 00 01 01 01 01 01 01 01 01 01 01	Value (BIN) 00100001 01001111 010100 0000000 000000	Value (DEC) 33 79 84 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

3B 3C 3D

3E 3F

 25 32

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Dutati	Duto#		Value	Value	Value
(Decimal)	(HEX)	Field Name & Comments	(HEX)	(BIN)	(DEC)
(= ,		Vierne Offecte dilace	· · · - · · /		
64 65	40	V sync. Offset= 4 lines	45	01000101	69 0
66	41	V sync, Width= 5 lines	DC		220
		H image size = 220 mm (L8b)		11011100	
67	43	V image size = 129 mm (L8b)	81		129
68	44	Horizontal Image (U4b): Vertical Image	00	00000000	0
69	45	(U4b) No Horizontal Border=0	00	00000000	0
70	46	No Vertical Border=0	00	00000000	0
71	47	Non-interlaced, Normal display, No	19	00011000	25
		stereo, Digital separate sync, H/V pol			
70	48	Negatives Detailed timing/monitor (descriptor #2)	4.0	00040440	
72			16	00010110	22
73	49	1024x600 @65Hz: Pixel Clock = 51.42	14	00010100	20
74	4.0	MHz	00	00000000	~
74	4A	Horizontal active=1024 pixels (L8b)	00		0
75	4B	Horizontal blanking=216pixels (L8b)	D8	11011000	216
76	4C	HA (U4b): HB (U4b)	40	01000000	64
77	4D	Vertical active=600 lines (L8b)	58	01011000	88
78	4E	Vertical blanking= 38 lines (L8b)	26	00100110	38
79	4F	HA (U4b): HB (U4b)	20	00100000	32
80	50	H sync. Offset= 93 pixels	5D	01011101	93
81	51	H sync. Width= 35 pixels	23	00100011	35
82	52	V sync. Offset= 17lines	15	00010101	21
83	53	∨ sync. Width=5 lines	04	00000100	4
84	54	H image size = 220 mm (L8b)	DC	11011100	220
85	55	V image size = 129 mm (L8b)	81	10000001	129
86	56	Horizontal Image (U4b): Vertical Image	00	00000000	0
		(U4b)			
87	57	No Horizontal Border=0	00	00000000	0
88	58	No Vertical Border=0	00	00000000	0
89	59	EDID Module revision	00	00000000	0
90	5A	Flag	00	00000000	0
91	5B	Flag	00	00000000	0
92	5C	Flag	00	00000000	0
92	50				0.5.4
		Dummy Descriptor	FE	11111110	254
93	5D	Dummy Descriptor	FE 00	11111110	254
93 94	5D 5E	Flag	00	00000000	0
93	5D	í			
93 94	5D 5E	Flag PC Maker P/N 1 st Character =M	00	00000000	0
93 94 95	5D 5E 5F	Flag	00	00000000	0
93 94 95 Byte# (Decimal)	5D 5E 5F Byte# (HEX)	Flag PC Maker P/N 1 st Character =M Field Name & Comments	00 00 Value (HEX)	00000000 00000000 Value (BIN)	0 0 Value (DEC)
93 94 95 Byte# (Decimal) 96	5D 5E 5F Byte# (HEX) 60	Flag PC Maker P/N 1 st Character =M Field Name & Comments PC Maker P/N 2 nd Character =3	00 00 Value (HEX) 00	00000000 00000000 Value (BIN) 00000000	0 0 Value (DEC) 0
93 94 95 Byte# (Decimal) 96 97	5D 5E 5F (HEX) 60 61	Flag PC Maker P/N 1 st Character =M Field Name & Comments PC Maker P/N 2 nd Character =3 PC Maker P/N 3 rd Character =4	00 00 Value (HEX) 00 00	00000000 00000000 Value (BIN) 00000000 00000000	0 0 Value (DEC) 0 0
93 94 95 Byte# (Decimal) 96 97 98	5D 5E 5F (HEX) 60 61 62	Flag PC Maker P/N 1 ⁸¹ Character =M Field Name & Comments PC Maker P/N 2 nd Character =3 PC Maker P/N 3 rd Character =4 PC Maker P/N 4 rd Character =9	00 00 (HEX) 00 00 00	00000000 00000000 (BIN) 00000000 00000000 00000000	0 0 (DEC) 0 0 0
93 94 95 Byte# (Decimal) 96 97 98 99	5D 5E 5F (HEX) 60 61 62 63	Flag PC Maker P/N 1 ⁸¹ Character =M Field Name & Comments PC Maker P/N 2 nd Character =3 PC Maker P/N 3 rd Character =4 PC Maker P/N 4 rd Character =9 PC Maker P/N 5 rd Character =5	00 00 (HEX) 00 00 00 00 00	00000000 00000000 (BIN) 00000000 00000000 00000000 00000000	0 0 (DEC) 0 0 0 0
93 94 95 Byte# (Decimal) 96 97 98 99 99 100	5D 5E 5F (HEX) 60 61 62 63 64	Flag PC Maker P/N 1 ⁸¹ Character =M Field Name & Comments PC Maker P/N 2 nd Character =3 PC Maker P/N 3 rd Character =4 PC Maker P/N 4 rd Character =9 PC Maker P/N 5 rd Character =5 LCD Supplier EEDID Revision # =1.0	00 00 (HEX) 00 00 00 00 00 00	00000000 00000000 (BIN) 00000000 00000000 00000000 00000000 0000	0 0 (DEC) 0 0 0 0 0
93 94 95 Byte# (Decimal) 96 97 98 99 99 100 101	5D 5E 5F (HEX) 60 61 62 63 64 65	Flag PC Maker P/N 1 ⁸¹ Character =M Field Name & Comments PC Maker P/N 2 nd Character =3 PC Maker P/N 3 nd Character =4 PC Maker P/N 4 nd Character =9 PC Maker P/N 5 nd Character =5 LCD Supplier EEDID Revision # =1.0 Manufacturer P/N = 1	00 00 (HEX) 00 00 00 00 00 00 00	00000000 00000000 (BIN) 00000000 00000000 00000000 00000000 0000	0 0 (DEC) 0 0 0 0 0 0 0 0
93 94 95 (Decimal) 96 97 98 98 99 100 101 102	5D 5E 5F (HEX) 60 61 62 63 64 65 66	Flag PC Maker P/N 1 ⁸¹ Character =M Field Name & Comments PC Maker P/N 2 rd Character =3 PC Maker P/N 3 rd Character =4 PC Maker P/N 4 rd Character =9 PC Maker P/N 5 rd Character =5 LCD Supplier EEDID Revision # =1.0 Manufacturer P/N = 1 Manufacturer P/N = 5	00 00 (HEX) 00 00 00 00 00 00 00 00	00000000 00000000 Value (BIN) 00000000 00000000 00000000 00000000	0 0 (DEC) 0 0 0 0 0 0 0 0 0 0 0
93 94 95 Byte# (Decimal) 96 97 98 99 100 101 102 103	5D 5E 5F (HEX) 60 61 62 63 64 65 66 66 67	Flag PC Maker P/N 1 st Character =M Field Name & Comments PC Maker P/N 2 nd Character =3 PC Maker P/N 3 rd Character =4 PC Maker P/N 4 rd Character =9 PC Maker P/N 4 rd Character =5 LCD Supplier EEDID Revision # =1.0 Manufacturer P/N = 1 Manufacturer P/N = 5 Manufacturer P/N = P	00 00 (HEX) 00 00 00 00 00 00 00 00 00 00 00	00000000 00000000 Value (BIN) 00000000 00000000 00000000 00000000	0 0 (DEC) 0 0 0 0 0 0 0 0 0 0 0
93 94 95 Byte# (Decimal) 96 97 98 99 100 101 102 103 104	5D 5E 5F (HEX) 60 61 62 63 64 65 66 66 67 68	Flag PC Maker P/N 1 st Character =M Field Name & Comments PC Maker P/N 2 ^{frd} Character =3 PC Maker P/N 3 rd Character =4 PC Maker P/N 3 rd Character =9 PC Maker P/N 4 rd Character =5 LCD Supplier EEDID Revision # =1.0 Manufacturer P/N = 1 Manufacturer P/N = 5 Manufacturer P/N = P Manufacturer P/N = X	00 00 (HEX) 00 00 00 00 00 00 00 00 00 00 00 00	00000000 00000000 Value (BIN) 00000000 00000000 00000000 00000000	0 0 (DEC) 0 0 0 0 0 0 0 0 0 0 0 0 0
93 94 95 Byte# (Decimal) 96 97 98 99 100 101 102 103 104 105	5D 5E 5F (HEX) 60 61 62 63 64 65 66 66 66 67 68 69	Flag PC Maker P/N 1 ⁸¹ Character =M Field Name & Comments PC Maker P/N 2 ⁶⁰ Character =3 PC Maker P/N 3 ⁶⁰ Character =4 PC Maker P/N 4 ⁷⁰ Character =9 PC Maker P/N 4 ⁷⁰ Character =5 LCD Supplier EEDID Revision # =1.0 Manufacturer P/N = 1 Manufacturer P/N = 2 Manufacturer P/N = X Manufacturer P/N = 1	00 00 (HEX) 00 00 00 00 00 00 00 00 00 00 00 00	00000000 00000000 (BIN) 00000000 00000000 00000000 00000000 0000	0 0 (DEC) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
93 94 95 Byte# (Decimal) 96 97 98 99 100 101 102 103 104 105 106	5D 5E 5F (HEX) 60 61 62 63 64 65 66 67 68 69 6A	Flag PC Maker P/N 1 ⁸¹ Character =M Field Name & Comments PC Maker P/N 2 ⁶⁰ Character =3 PC Maker P/N 3 ⁶⁰ Character =4 PC Maker P/N 4 ⁶⁰ Character =9 PC Maker P/N 4 ⁵⁰ Character =5 LCD Supplier EEDID Revision # =1.0 Manufacturer P/N = 1 Manufacturer P/N = 2 Manufacturer P/N = 1 Manufacturer P/N = 1 Manufacturer P/N = 4	00 00 (HEX) 00 00 00 00 00 00 00 00 00 00 00 00 00	00000000 00000000 (BIN) 00000000 00000000 00000000 00000000 0000	0 0 (DEC) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
93 94 95 Byte# (Decimal) 96 97 98 99 100 101 102 103 104 105	5D 5E 5F (HEX) 60 61 62 63 64 65 66 66 66 67 68 69	Flag PC Maker P/N 1 ⁸¹ Character =M Field Name & Comments PC Maker P/N 2 nd Character =3 PC Maker P/N 3 rd Character =4 PC Maker P/N 4 rd Character =9 PC Maker P/N 4 rd Character =5 LCD Supplier EEDID Revision # =1.0 Manufacturer P/N = 1 Manufacturer P/N = 2 Manufacturer P/N = 1 Manufacturer P/N = 1 Manufacturer P/N = 4 Manufacturer P/N = 4	00 00 (HEX) 00 00 00 00 00 00 00 00 00 00 00 00	00000000 00000000 (BIN) 00000000 00000000 00000000 00000000 0000	0 0 (DEC) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
93 94 95 Byte# (Decimal) 96 97 98 99 100 101 102 103 104 105 106	5D 5E 5F (HEX) 60 61 62 63 64 65 66 67 68 69 6A	Flag PC Maker P/N 1 st Character =M Field Name & Comments PC Maker P/N 2 nd Character =3 PC Maker P/N 3 nd Character =4 PC Maker P/N 3 nd Character =9 PC Maker P/N 5 nd Character =5 LCD Supplier EEDID Revision # =1.0 Manufacturer P/N = 1 Manufacturer P/N = 5 Manufacturer P/N = 5 Manufacturer P/N = 7 Manufacturer P/N = 1 Manufacturer P/N = 4 Manufacturer P/N = 4 Manufacturer P/N = 4	00 00 (HEX) 00 00 00 00 00 00 00 00 00 00 00 00 00	00000000 00000000 (BIN) 00000000 00000000 00000000 00000000 0000	0 0 (DEC) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
93 94 95 Byte# (Decimal) 96 97 98 99 100 100 100 100 100 102 103 104 105 106 107	5D 5E 5F (HEX) 60 61 62 63 64 65 66 66 67 68 68 69 6A 6B	Flag PC Maker P/N 1 st Character =M Field Name & Comments PC Maker P/N 2 nd Character =3 PC Maker P/N 3 rd Character =4 PC Maker P/N 3 rd Character =9 PC Maker P/N 4 rd Character =5 LCD Supplier EEDID Revision # =1.0 Manufacturer P/N = 1 Manufacturer P/N = 5 Manufacturer P/N = 5 Manufacturer P/N = 7 Manufacturer P/N = 1 Manufacturer P/N = 1 Manufacturer P/N = 1 Manufacturer P/N = 1 Manufacturer P/N = 4 Manufacturer P/N [f <13char, then terminate with ASCII code, set remaining=20h)	00 00 (HEX) 00 00 00 00 00 00 00 00 00 00 00 00 00	00000000 00000000 Value (BIN) 00000000 00000000 00000000 00000000	0 Value (DEC) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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93 94 95 Byte# (Decimal) 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 110 111 112	5D 5E 5F (HEX) 60 61 62 63 64 65 66 67 68 68 68 68 68 68 68 60 68 68 67 68 68 67 70	Flag PC Maker P/N 1 st Character =M Field Name & Comments PC Maker P/N 2 nd Character =3 PC Maker P/N 3 rd Character =4 PC Maker P/N 3 rd Character =9 PC Maker P/N 4 rd Character =9 PC Maker P/N 4 rd Character =5 LCD Supplier EEDID Revision # =1.0 Manufacturer P/N = 1 Manufacturer P/N = 5 Manufacturer P/N = 7 Manufacturer P/N = 1 Manufacturer P/N = 1 Manufacturer P/N = 1 Manufacturer P/N = 4 Manufacturer P/N = 1 Data Type Tag </td <td>00 00 (HEX) 00 00 00 00 00 00 00 00 00 00 00 00 00</td> <td>00000000 00000000 Value (BIN) 00000000 00000000 00000000 00000000</td> <td>0 Value (DEC) 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	00 00 (HEX) 00 00 00 00 00 00 00 00 00 00 00 00 00	00000000 00000000 Value (BIN) 00000000 00000000 00000000 00000000	0 Value (DEC) 0 0 0 0 0 0 0 0 0 0 0 0 0
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