

Version :<u>1.0</u>

TECHNICAL SPECIFICATION

MODEL NO.: PD121XL6

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Customer•s Confirmation

Customer

Date

By

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FOR MORE INFORMATION:

AZ DISPLAYS, INC. 75 COLUMBIA, ALISO VIEJO, CA 92656 Http://www.AZDISPLAYS.com

Confirmed By Prepared By

PD121XL6

Revision History

Rev.	Eng.	Issued Date	Revised	Contents
0.1	Sarah Huang	Jan 16, 2009	Preliminary	
1.0	Sarah Huang	Jan 07, 2010	Modify Page	7
			5. Input / Ou	tput Terminals
			Add Page 8	
			6-1) Pin assi	gnment:
			Modify Page	17
			14. Optical C	Characteristics: Uniformity from 75% to 70%
			Add Page 17	7
			14. Optical C	Characteristics: White Chromaticity
			Add Page 22	2
			17. Packing	Diagram



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1. Application

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The PD121XL6 is a 12.1" TFT-LCD module with LED B/L and a 20-pin LVDS interface. This module supports 1024 x768 XGA modes and displays 262,144 colors. This module can apply TFT-LCD monitor, TV, Factory application, Amusement Vehicle, and so on.

2. Features

- Wide viewing angle
- Fast response time
- High color saturation
- XGA (1024 x768 pixels) resolution
- Wide operating temperature
- DE (Data Enable) mode
- LVDS (Low Voltage Differential Signaling) interface
- RoHS Compliance
- Module with resistive type touch panel.

3. Mechanical Specifications

Parameter	Specifications	Unit
Screen Size	12.1 (diagonal)	inch
Display Format	1024×(R, G, B)×768	dot
Display Colors	262,144	
Active Area	245.76(H)×184.32(V)	mm
Pixel Pitch	0.240(H)×0.240(V)	mm
Pixel Configuration	RGB Vertical Stripe	
Outline Dimension	260.5(W)× 204(H)× 9.76(D) (typ.)	mm
Weight	715 <u>+</u> 20	g
Back-light	54-LED	
Surface treatment	Anti-glare + WV film	
Display mode	Normally White	
Surface treatment of Touch Panel	3Н	
Gray scale inversion direction	12 O'clock	Note 14-2

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4. Mechanical Drawing of TFT-LCD Module

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5. Input / Output Terminals

5-1) TFT-LCD Panel Driving

Connector type: DF19K-20P-1H

CN1	Interface connector	Hirose/DF19L-20P-1H or equivalent
	User side connector	Hirose/DF19G-20S-1C or equivalent

Pin No.	Symbol	Function	Remark
1	VSS	Ground	
2	VDD1	Power Supply: +3.3V	
3	VDD2	Power Supply: +3.3V	
4	NC	NC	
5	NC	NC	
6	NC	NC	
7	NC	NC	
8	RIN0-	LVDS Negative data signal (-)	Tx pin #48
9	RIN0+	LVDS Positive data signal (+)	Tx pin #47
10	VSS	Ground	
11	RIN1-	LVDS Negative data signal (-)	Tx pin #46
12	RIN1+	LVDS Positive data signal (+)	Tx pin #45
13	VSS	Ground	
14	RIN2-	LVDS Negative data signal (-)	Tx pin #42
15	RIN2+	LVDS Positive data signal (+)	Tx pin #41
16	VSS	Ground	
17	RCLKIN-	LVDS Negative clock signal (-)	Tx pin #40
18	RCLKIN+	LVDS Positive clock signal (+)	Tx pin #39
19	VSS	Ground	
20	VSS	Ground	

5-2) Backlight driving

Connector type: JST BHSR-02VS-1, PIN No 2 pin

Pin No	Symbol	Description	Remark
1	+	Input terminal (Anode)	Wire color: Red
2	-	Input terminal (Cathode)	Wire Color: Black

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5-3) LVDS Interface

LVDS Transmitter: THC63LVDM83A or equivalent

Input	Trans	mitter	Interface			
signal	Pin No	Pin No	System (Tx)	TFT-LCD (Rx)		
R0	51					
R1	52					
R2	54			-		
R3	55	48 47		INO- INO-		
R4	56	77	0010+	INOT		
R5	3					
G0	4					
G1	6					
G2	7		46 OUT1- 45 OUT1+	TNI4		
G3	11	46				
G4	12	46 45		IN1- IN1+		
G5	14	-15		1011		
B0	15					
B1	19					
B2	20					
B3	22					
B4	23	40	0.1773			
B5	24	42	0012-	IN2- IN2+		
HSYNC	27	TI	0012+	11127		
VSYNC	28					
DE	30					
MCLK	31	40	CLKOUT-	CLKIN-		
		39	CLKOUT+	CLKIN+		

6. Touch Panel Characteristics

6-1) Pin assignment:

Pin No.	Symbol	Function	Remark
1	RT	Loop Resistance	Note 6-1
2	RL	Loop Resistance	Note 6-1
3	SG	GND	
4	LT	Loop Resistance	Note 6-1
5	LL	Loop Resistance	Note 6-1

Note 6 - 1:

Loop Resistance X = short RT and RL , short LT and

LL , measure the resistance between RT and LT

Loop Resistance Y = short RT and LT , short RL and

LL ,measure the resistance between RT and RL



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6-2) Electrical Performances:

Parameters	Symbol	MIN.	Тур.	MAX.	Unit	Remark
Terminal Resistance	X	20	-	500		
	Y	20	-	500		
Input Voltage	VT	-	5	-	V	
Linearity(X,Y direction)		-	-	±1.5	%	
Insulation Impedance		20	-	-	MΩ	DC= 25V
Response Time		-	-	15	ms	
Operation Force		-	-	80	g	Note 6-2

Note 6 - 2: Input through R0.8mm stylus or R8.0mm finger.

6-3) Durability Performances

1) Hitting Durability:

At least 10,000,000 times with R8.0mm silicon rubber, 150g, 3times/sec .

2) Sliding Durability:

At least 100,000 times with R0.8mm polydactyl stylus, 150g, 50mm/sec.

6-4) Integration Design Guide

Avoid the design that Front-case overlap and press on the active area of the touch-panel. Give enough gap (over 0.5mm at compressed) between the front case and touch-panel to protect wrong operating.



Use a buffer material (Gasket) between the touch-panel and front-case to protect damage and wrong operating.

Avoid the design that buffer material overlap and press on the inside of touch-panel viewing area.

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Note: We strongly suggest to follow above design guide to avoid the linear defect happened on the touch panel.

7. Absolute Maximum Ratings:

The followings are maximum values, which if exceeded, may cause faulty operation or damage to the unit. $GND=0V,Ta=25^{\circ}C$

Parameters	Symbol	MIN.	MAX.	Unit	Remark
Logic Power Supply	V _{DD}	VSS-0.3	+4.0	V	
Logic Input Voltage	Vin	VSS-0.3	V _{DD} +0.3	V	Note 7-1

Note 7-1: Permanent damage to the device may occur if maximum values are exceeded. Function operation should be restricted to the conditions described under Normal Operating Conditions.

8. Electrical Characteristics

8-1) Recommended Operating Conditions:

					-	Га=25 ± 2°С
Parameter	Symbol		Value	Linit	Noto	
	Symbol	Min.	Тур.	Max.	Unit	Note
Power Supply Voltage	V _{DD}	3.0	3.3	3.6	V	Noto 9 1
Power Supply Current	I _{DD}	-	280	485	mA	INDLE 0-1
Power Consumption	P _{DD}	-	0.9	1.6	W	Note 8-2
LVDS differential voltage	V _{ID}	-100	-	+100	mV	
LVDS common input voltage	Vic	-	1.2	-	V	

Note 8-1: The module is recommended to operate within specification ranges listed above for normal function.

Note 8-2: PDD=VDD X IDD

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8-2) Recommended driving condition for LED backlight:

						Ta = 25℃
Parameter	Symbol	Min	TYP	MAX	Unit	Remark
Supply voltage of LED backlight	V _{LED1}	-	9.9	(10.8)	V	Note 8-3
Supply current of LED backlight	I _{LED1}	-	20	-	mΑ	Note 8-4
Backlight Power Consumption	PLED	-	3.56	(3.89)	W	Note 8-3/8-5

Note 8-3: I_{LED} = 20mA, Constant Current.

Note 8-4: The LED driving condition is defined for each LED module. (3 LED Serial) Input current = 360mA

Note 8-5: P_{LED} = V_{LED1} * I_{LED1} + V_{LED2} * I_{LED2} ++V_{LED17} * I_{LED17} + V_{LED18} * I_{LED18}



9. Pixel Arrangement

R G B R G B 1 st Line R G B R G B 2 nd Line R G B 3 rd Line 1 st Pixel	R G B R G B R G B 1024th Pixel
1 Pixel = $\mathbf{R} \mathbf{G} \mathbf{B}$	
RGB 765 th LineRGBRGB 767 th LineRGBRGB 767 th LineRGBRGB 768 th Line	R G B R G B R G B



10. Display Color and Gray Scale Reference

	Data Signal																		
	Red				Green				Blue										
		R5	R4	R3	R2	R1	R0	G5	G4	G3	G2	G1	G0	B5	B4	B3	B2	B1	B0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	Green	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
Basic	Blue	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
Colors	Cyan	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	Magenta	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1
	Yellow	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	White	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Red(0)/Dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(1)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Gray	Red(2)	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Scale	:	1	:	:	1	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Of	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Red	Red(61)	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Red(62)	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(63)	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	Green(0)/Dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green(1)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Gray	Green(2)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Scale	:	-	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Of	:	:	:	:	:	:	:		:	:	:	:	:	:	:	:	:	:	:
Green	Green(61)	0				0			1	1	1			0	0			0	0
	Green(62)	0	0			0		1	1	1	1		1	0	0			0	0
	Green(65)	0	0	0	0	0	0		0	0	-			0	0	0	0	0	0
	Blue(0)/Dark	0	0			0		0		0	0			0	0			0	1
Grav	Blue(2)	0	0			0		6	0	0	0			0	0	0		1	
Scalo	Dide(2)																		
Of		-	:	1	-	:	1	1	1	:	1	1	1:	:	1	1	1	:	:
Blue	Blue(61)	ò	ò	ò	ò	ò	i.	ó	ò	ò	ò	'n	Ġ	1	1	1	1	ò	1
Diac	Blue(62)	ŏ	ŏ	lõ	ŏ	ő	lõ	ŏ	ŏ	ŏ	ŏ	lõ	lõ	1	1	1	1	1	ó
	Blue(63)	ŏ	ŏ	lõ	ŏ	ŏ	lõ	ŏ	ŏ	ŏ	ŏ	lõ	ŏ	1	1	1	l i	1	ĭ
	Black(0)/Dark	0	0	Ō	0	0	0	õ	0	0	0	Ō	0	0	0	0	0	0	0
	Grav (1)	õ	ŏ	Ō	ŏ	Ō	1	õ	ō	õ	õ	Ō	1	õ	Ō	ŏ	Ō	ō	1
Grav	Grav (2)	0	0	Ō	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0
Scale		:	:	:	-	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Of		-	:	:	-	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Black	Grav (61)	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	0	1
	Gray (62)	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	0
	White(63)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Note 10-1: 0: Low Level Voltage, 1: High Level Voltage



11. Block Diagram

11-1) TFT-module Block Diagram



12. Interface Timing

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12-1) The 12.1" XGA LCM is operated by the only DE mode (LVDS Transmitter Input)

	Item	Symbols	Min	Тур	Max	Unit	
	Frequency	1/Tc	-	65	80	MHz	
Clock	High Time	Tch	4.5 -		-	ns	
ciocit	Low Time	Tcl	4.5	4.5 -		ns	
	Setup Time	Tds	2.7	-	-	ns	
Data	Hold Time	Tdh	0	-	-	ns	
Data Ena	ata Enable Setup Time		2.7	-	-	ns	
Frame Period		Tv	772	806	1022	lines	
Vertical Display Period		Tvd	768	768	768	lines	
One Line Scanning Period		Th	1100	1344	2046	clocks	
Horizont	al Display Period	Thd	1024	1024 1024		clocks	

12-2) LVDS Rx interface timing parameter

The specification of the LVDS Rx interface timing parameter

Item	Symbol	Min	Тур	Max	Unit	Remark
CLKIN Period	tRCIP	12.5	15.38		nsec	
Input Data 0	tRIP0	-0.4	0.0	+0.4	nsec	
Input Data 1	tRIP1	tRICP/7-0.4	tRICP/7	tRICP/7+0.4	nsec	
Input Data 2	tRIP2	$2 \times tRICP/7-0.4$	2 imes tRICP/7	2 ×tRICP/7+0.4	nsec	
Input Data 3	tRIP3	3 ×tRICP/7-0.4	3 imes tRICP/7	3 ×tRICP/7+0.4	nsec	
Input Data 4	tRIP4	$4 \times \text{tRICP}/7-0.4$	$4 \times tRICP/7$	$4 \times tRICP/7+0.4$	nsec	
Input Data 5	tRIP5	5 imestRICP/7-0.4	5 imestricp/7	5 ×tRICP/7+0.4	nsec	
Input Data 6	tRIP6	6 ×tRICP/7-0.4	6 imestricp/7	6 ×tRICP/7+0.4	nsec	





12-3) Signal Timing Waveforms of Interface Signal (DE Mode)

A) Vertical Timing Waveforms



B)Horizontal Timing Waveforms



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13. Power on Sequence

To prevent a latch-up or DC operation of the LCD module, the power on/off sequence shall be as shown in below



- 0 < T1 ≤ 10 ms
- $0 < T2 \le 50 \text{ ms}$
- 200 ms ≤ T3
- 0 ms≤ T4, 0 ms≤ T5
- $0 \le T6 \le 10 \text{ms}$
- 150ms ≤ T7

Note 13-1: When the power supply VDD is 0V, keep the level of input signals on the low or keep high impedance.

Note 13-2: Do not keep the interface signal high impedance when power is on.

Note 13-3: Back Light must be turn on after power for logic and interface signal are valid.

14. Optical Characteristics

14-1) Specification:

Param	neter	Symbol	Condition	MIN.	TYP.	MAX.	Unit	Remarks
	Horizontal	θ		70	75	-	deg	
Viewing Angle	Vertical	θ (to 12 o'clock)	CR <u>></u> 10	50	55	-	deg	Note 14-2
	ventical	θ (to 6 o'clock)		40	45	-	deg	
Contras	Contrast Ratio		<i>θ</i> =0°	400	600		-	Note 14-3
Response	Rise	Tr	$\theta = 0^{\circ}$	-	10	20	ms	Note 11-5
time	Fall	Tf	0 -0	-	20	40	ms	
Brightness		L	<i>θ</i> =0°/ <i>φ</i> =0	300	400	-	cd/m ^²	Note 14-1
LED Life Time		-	-	20000	30000	-	hrs	Note 14-4
White Chromaticity		x	<i>θ</i> =0°/ <i>φ</i> =0	0.26	0.31	0.36	-	Noto 14 1
		У	<i>θ</i> =0°/ <i>φ</i> =0	0.29	0.34	0.39	-	
Unifor	mity	U	-	65	70	-	%	Note 14-6
Cross Ta	lk Ratio	СТК	_	-	-	3.5	%	Note 14-7

Note 14-1: Topcon BM-5A or BM-7 fast luminance meter 1° field of view is used in the testing.

Note 14-2: The definitions of viewing angles are as follow



Note 14-3: The definition of contrast ratio:	CR – Luminance at White Pattern
	Luminance at Black Pattern

Note 14-4: The "LED Life time " is defined as the module brightness decrease to 50% original Brightness that the ambient temperature is 25° C and I_{LED} =360mA.

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To-25°C

Note 14-5: Definition of Response Time Tr and Tf



Note 14-6: The uniformity of LCD is defined as

U = The Minimum Brightness of the 9 testing Points The Maximum Brightness of the 9 testing Points

Luminance meter: BM-5A or BM-7 fast (TOPCON) Measurement distance: 500 mm +/- 50 mm Ambient illumination: < 1 Lux Measuring direction: Perpendicular to the surface of module The test pattern is white (Gray Level 63).



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Note 14-7: Cross Talk (CTK) = $\frac{|YA-YB|}{YA} \times 100\%$

YA: Brightness of Pattern A YB: Brightness of Pattern B Luminance meter: BM 5A (TOPCON) Measurement distance: 500 mm +/- 50 mm Ambient illumination: < 1 Lux Measuring direction: Perpendicular to the surface of module



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15. Handling Cautions

- 15-1) Mounting of module
 - a) Please power off the module when you connect the input/output connector.
 - b) Polarizer which is made of soft material and susceptible to flaw must be handled carefully.
 - c) Protective film (Laminator) is applied on surface to protect it against scratches and dirt.
 - d) Please following the tear off direction as figure 15-1 to remove the protective film as slowly as possible, so that electrostatic charge can be minimized.
- 15-2) Precautions in mounting
 - a) When metal part of the TFT-LCD module (shielding lid and rear case) is soiled, wipe it with soft dry cloth.
 - b) Wipe off water drops or finger grease immediately. Long contact with water may cause discoloration or spots.
 - c) TFT-LCD module uses glass which breaks or cracks easily if dropped or bumped on hard surface. Please handle with care.
 - d) Since CMOS LSI is used in the module. So take care of static electricity and earth yourself when handling.
- 15-3) Adjusting module
 - a) Adjusting volumes on the rear face of the module have been set optimally before shipment.
 - b) Therefore, do not change any adjusted values. If adjusted values are changed, the specifications described may not be satisfied.
- 15-4) Others
 - a) Do not expose the module to direct sunlight or intensive ultraviolet rays for many hours.
 - b) Store the module at a room temperature place.
 - c) The voltage of beginning electric discharge may over the normal voltage because of leakage current from approach conductor by to draw lump read lead line around.
 - d) If LCD panel breaks, it is possibly that the liquid crystal escapes from the panel. Avoid putting it into eyes or mouth. When liquid crystal sticks on hands, clothes or feet. Wash it out immediately with soap.
 - e) Observe all other precautionary requirements in handling general electronic components.
 - f) Please adjust the voltage of common electrode as material of attachment by 1 module.



Figure 15-1 the way to peel off protective film

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16. Reliability Test

P-511-596(V:1)

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No	Test Item	Test Condition
1	High Temperature Storage Test	Ta = +80℃, 240 hrs
2	Low Temperature Storage Test	Ta = -40°C, 240 hrs
3	High Temperature Operation Test	Ta = +70℃, 240 hrs
4	Low Temperature Operation Test	Ta = -10℃, 240 hrs
5	High Temperature & High Humidity Operation Test	Ta = 60 $^\circ$ C, 90%RH, 240 hrs
6	Thermal Cycling Test (non-operating)	-40°C(1hour) →+80°C(1hour), 100Cycles
7	Vibration Test (non-operating)	Frequency : 10 ~ 57 H _Z Amplitude : 0.15 mm,58~500Hz, 1G Sweep time: 11 min Test Period: 3 hrs (1 hr for each direction of X, Y, Z)
8	Shock Test (non-operating)	80G, 6ms, X,Y, Z 1 times for each direction
9	Electrostatic Discharge Test (Operation)	C=150pF,R=330Ω Contact=±8KV Air=±15KV 10 times/terminal

Ta: ambient temperature

Note: The protective film must be removed before temperature test.

[Criteria]

In the standard conditions, there is not display function NG issue occurred. (including : line defect ,no image). All the cosmetic specification is judged before the reliability stress.

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17. Pa	acking Dia	Igram								
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MTL.SPE	C.	UNSPECIFIED	TOL'S	REMA	ARK	ITEM	part no. [ESCRIPTION	QTY	REMARK
		ANGLE					、 元太科	斗技工業股份	有限:	公司
		ROUGHNESS					Prime	View Internation	nal C	o., Ltd.
APPROVE	Patrick Lin	'09.12.25	SCALE	UNIT	SHEET	DW	G.TITLE			
CHECK	Patrick Lin	09.12.25			1 of 1		PD121XL6	6 Module Pac	king	Draw
DRAWN	Ethan Chen	09.12.25	MTL.NO.				DWG FILE:			REV. A4
										- SIZE