

GENERAL DESCRIPTION

OVERVIEW

The ABZ-121PM model is a 12.1" TFT-LCD module with a 2-CCFL Backlight Unit and a 20-pin 1ch-LVDS interface. This module supports 1024 x 768 XGA mode and displays 262,144 colors. The inverter module for the Backlight Unit is not built in.

FEATURES

- Wide viewing angle
- High contrast ratio
- Fast response time
- High color saturation
- XGA (1024 x 768 pixels) resolution
- Wide operating temperature
- DE (Data Enable) mode
- LVDS (Low Voltage Differential Signaling) interface
- RoHS Compliance

APPLICATION

- TFT LCD Monitor
- TFT LCD TV
- Factory Application
- Amusement
- Vehicle

GENERAL SPECIFICATIONS

Item	Specification	Unit	Note
Diagonal Size	12.1	inch	(1)
Active Area	245.76(H) x 184.32(V)	mm	
Bezel Opening Area	249.00(H) x 187.50(V)	mm	
Driver Element	a-si TFT active matrix	-	-
Pixel Number	1024 x R.G.B. x 768	pixel	-
Pixel Pitch	0.240(H) x 0.240(V)	mm	-
Pixel Arrangement	RGB vertical stripe	-	-
Display Colors	262,144	color	-
Transmissive Mode	Normally white	-	-
Surface Treatment	Hard coating (3H), Anti-glare (Haze 25%)	-	-

OPTICAL CHARACTERISTICS

TEST CONDITIONS

Item	Symbol	Value	Unit
Ambient Temperature	Ta	25±2	°C
Ambient Humidity	Ha	50±10	%RH
Supply Voltage	V _{CC}	5.0	V
Input Signal	According to typical value in "3. ELECTRICAL CHARACTERISTICS"		
Lamp Current	I _L	7	mA
Oscillating Frequency (Inverter)	F _w	61	KHz
Vertical Frame Rate	Fr	60	Hz
Inverter	Sumida IV40090T/B2		

OPTICAL SPECIFICATIONS

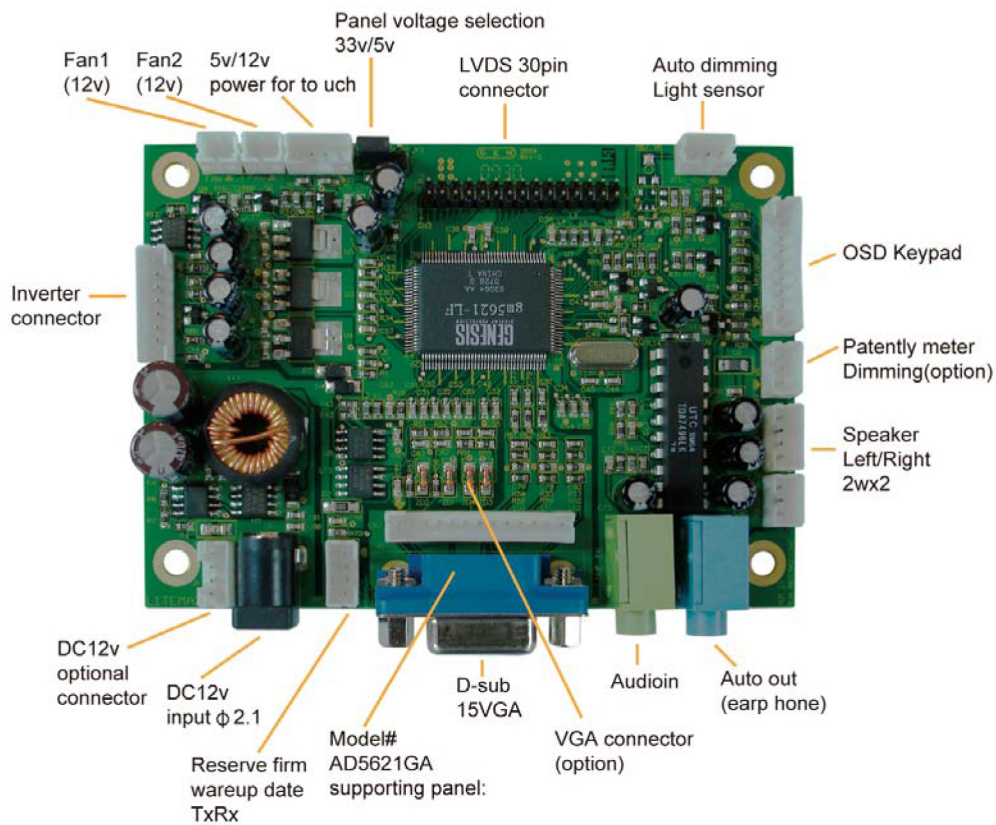
Item	Symbol	Condition	Min.	Typ.	Max.	Unit	Note	
Contrast Ratio	CR	$\theta_x=0^\circ, \theta_y=0^\circ$ Viewing angle at normal direction	900	1200	-	-	(2)	
Response Time	T _R		-	30	35	ms	(3)	
	T _F		-	10	15	ms		
Center Luminance of White	L _C		350	400	-	cd/m ²	(4)	
White Variation	δW		-	-	1.4	-	(7)	
Cross Talk	CT		-	-	4	%	(5)	
Color Chromaticity	Red		Rx	Typ. -0.03	0.629	Typ. +0.03	-	(6)
			Ry		0.348		-	
	Green		Gx		0.306		-	
			Gy		0.560		-	
	Blue	Bx	0.150		-			
		By	0.102		-			
	White	Wx	0.329		-			
Wy	0.346	-						
Color Gamut	CG	55	57	-	%	NTSC		
Viewing Angle	Horizontal	θ_{x+}	80	88	-	Deg.	(1)	
		θ_{x-}	80	88	-			
	Vertical	θ_{y+}	80	88	-			
		θ_{y-}	80	88	-			

Release Model: AD5621-G / AD5621-GA / AD5621-G(A)E

AD5621-GAE

- └─ Include all Ext. Function
- └─ Audio Function
- └─ Basic VGA Input (analog in)

AD board outline and Dimension



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