PC-TFT050VL-LED
Driver Board

The PC-TFT050VL-LED is a driver board with a 330 mA, 3.96 W max and VGA or SVGA inputs, 6-bit RGB output and lower power consumption. Applications: security, PC monitor, industry control monitor and POS.

Features

- Power source DC 12V
- Operating Temperature: 0ºC ~ 60ºC
- VGA or SVGA inputs
- Conveniently adjust image by operating keyboard
- Lower Power Consumption

- Power consumption: 330 mA, 3.96 W max
- Storage Temperature: -20ºC ~ 80ºC
- 6-Bit RGB output
- Support integrated PLL technology
- **RoHS complliant**

LVDS Connector (Molex-87758-12 or compatible)

Pin No.	Def.	Pin No.	Def.	Pin No.	Def.	Pin No.	Def.
1	VCC	4	GND	7	DA1-	10	DA2+
2	VCC	5	DA0-	8	DA1+	11	CLK1-
3	GND	6	DA0+	9	DA2-	12	CLK1+

Key Connector (JST B10B-XH-A or compatible)

Pin No.	Def.	Pin No.	Def.	Pin No.	Def.
1	GND	5	MENU	9	REMOTE
2	POWER	6	LEFT -	10	VCC (+5V)
3	RED	7	RIGHT +		
4	GREEN	8	ENTER		

Inverter Connector (JST B3B-XH-A or compatible)

Pin No.	Def.	Pin No.	Def.	Pin No.	Def.
1	+12V	2	GND	3	On/Off

15-Pin VGA Connector

Pin No.	Def.	Pin No.	Def.	Pin No.	Def.
1	RED	6	GND	11	NC
2	GREEN	7	GND	12	SDA
3	BLUE	8	GND	13	HD
4	NC	9	NC	14	VD
5	GND	10	NC	15	SCL

Product specifications contained herein may be changed without prior notice.
It is therefore advisable to contact Purdy Electronics before proceeding with the design of equipment incorporating this product.

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Power Connector (JST B2B-XH-A or compatible)

Pin No.	Def.	Pin No.	Def.
1	+12V	2	GND

Input Connector (JST B4B-XH-A or compatible)

Pin No.	Def.	Pin No.	Def.	Pin No.	Def.	Pin No.	Def.
1	DC +12V	2	GND	3	On/Off	4	Vbrt

Output Connector Adaptor to JST BHR-02VS-1

Pin No.	Def.	Pin No.	Def.
1	+ Anode	2	- Cathode

Connector Definition: CN3 - This Connector connected to key operation port of driver board.

OSD Function Description:

If you want to get the best effect, an adjustment of keyboard is required. When you first press the "menu" key, OSD enter the menu operation status (the first item is pictured,) called nonadjustable status; press enter key, enter the adjustment status and you can adjust the value of the highlight submenu item by pressing "left" or "right" key; by pressing the "enter" key again you can exit the adjustment status and save the value at the same time. In the nonadjustable status, pressing the "menu" key could switch menu items. The menu items are shown as follows:

Analog VGA Input Status

Menu Item	Submenu	Description
Picture	Brightness	Adjust the display brightness
	Contrast	Adjust the picture contrast
	Focus	Adjust the picture scan mode
	Clock	Adjust the clock frequency
	H-Position	Adjust the picture horizontal position
	V-Position	Adjust the picture vertical position
Color Setting	Native	Setting the color temperature
	C9300	
	C6500	
	User	
Function	Input Signal	Select the input signal source: PC-VGA; AV; S-Video; TV
	Language	Select the OSD language; Chinese; English
	OSD H-Position	Adjust the OSD display horizontal position
	OSD V-Position	Adjust the OSD vertical position

Analog Videl or S-Video Signal Input:

Menu Item	Submenu	Description
Picture	Brightness	Adjust the display brightness
	Contrast	Adjust the picture contrast
	Color	Adjust the picture color
	Tint	Adjust the picture tint
	Sharpness	Adjust the picture sharpness
Sound	Volume	Adjust the Audio output AMP
System Setting	Input SIgnal	Select the input signal source: PC-VGA; AV; S-Video; TV
	Language	Select the OSD language: Chinese; English
	Blue Screen	ON: Non-signal display blue screen. OFF: Non-signal display white screen.
	Rotation	Adjust the OSD display position: Mirror and flip
	Wide Screen	Switch between 16:9 and 4:3

Driver Board
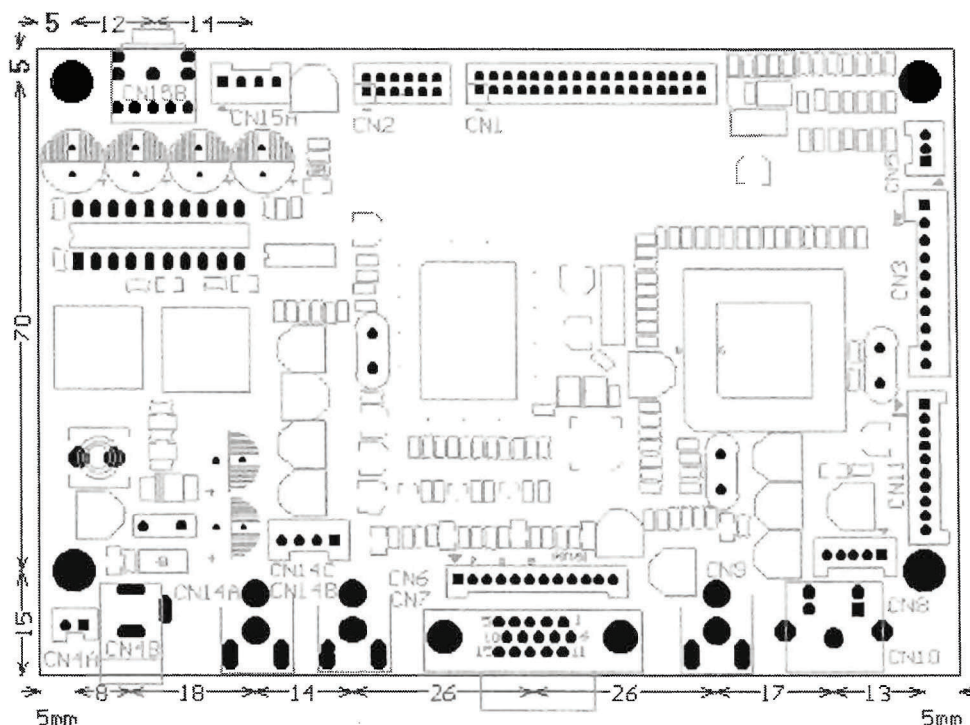
Outline: 132.0 x 90.0 x 17.1 mm
Top Layer High (Max): 13.0 mm
Bottom Layer High (Max): 2.5 mm
Board Thickness: 1.6 mm
Screws: D 3.0 mm * 4

AND Displays

Inverter

Outline: 99.9 x 29.7 x 8.6 mm
Top Layer High (Max): 7.0 mm
Board Thickness: 1.6 mm
Screws: D 3.2 mm

Key Board

CN1

Outline: 110.0 x 18.0 x 7.1 mm
Top Layer High (Max): 5.5 mm
Board Thickness: 1.6 mm
Screws: D 3.0 mm