



PC-TFT-050VL

Interface Board

Features

- Used for TFT-LCD display: 5" AND050VL-LED
- Input Signal: D-SUB VGA signal, composite video channels and S-Video
- Auto detect input signal when power is on
- Operating Temperature: 0°C ~ 60°C
- Storage Temperature: -20°C ~ 70°C
- **RoHS Compliant**

The PC-TFT-050VL is designed to work with the AND050VL-LED color TFT display which is suitable for security, video game, door phone, video phone, portable TV and instrument display applications..

Mechanical Characteristics for Board

Item	Specification	Unit
Outline Dimension	85.0 x 66.0 x 12.1	mm
Top Layer Height (max)	7.0	mm
Bottom Layer Height (max)	3.9	mm
Board thickness	1.2	mm
Screws	φ 3.0 x 4	mm

Absolute Maximum Rating

Item	Symbol	Conditions	Min.	Max.	Unit
Operating Temperature	Top	—	0	60	°C
Storage Temperature	Tstg	—	-20	70	°C

Driver Board introduction

Port Definition: CON1: External Signal Input Terminal (14 pin); CON2: Connector for Keyboard (10 pin); CON 3: NC; CON4: Connector for LCD Module (LVDS/34pin); CON6: Connector for LCD Backlight Driver Board (4 pin)

CON1 External Signal Input Terminal (14 pin)

Type: MOLEX 53261-1471 or Compatible

Pin No.	Symbol	I/O	Description
1	Vin	I	Vin
2	GND	I	Ground
3	GND	I	Ground
4	AV1	I	Composite Video 1
5	NC	I	No Connection
6	AV2	I	Composite Video 2
7	GND	I	Ground
8	R	I	VGA Red Signal Input
9	G	I	VGA Green Signal Input
10	B	I	VGA Blue Signal Input
11	GND	I	Ground
12	H-SYNC	I	HSYNC Input for VGA
13	V-SYNC	I	VSYSN Input for VGA
14	GND	I	Ground

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.

Electrical Characteristics

Symbol	Conditions	Input/Output	Min.	Typ.	Max.	Unit
Vin	DC (+V)	Input	10	12	14	V
Iin (Note)	DC (+12V)		320	350	380	mA
Pin (Note)			3.84	4.20	4.56	W

Note I in, Pin were tested under factory default setting.

CON2 Connector for Keyboard (10 pin)

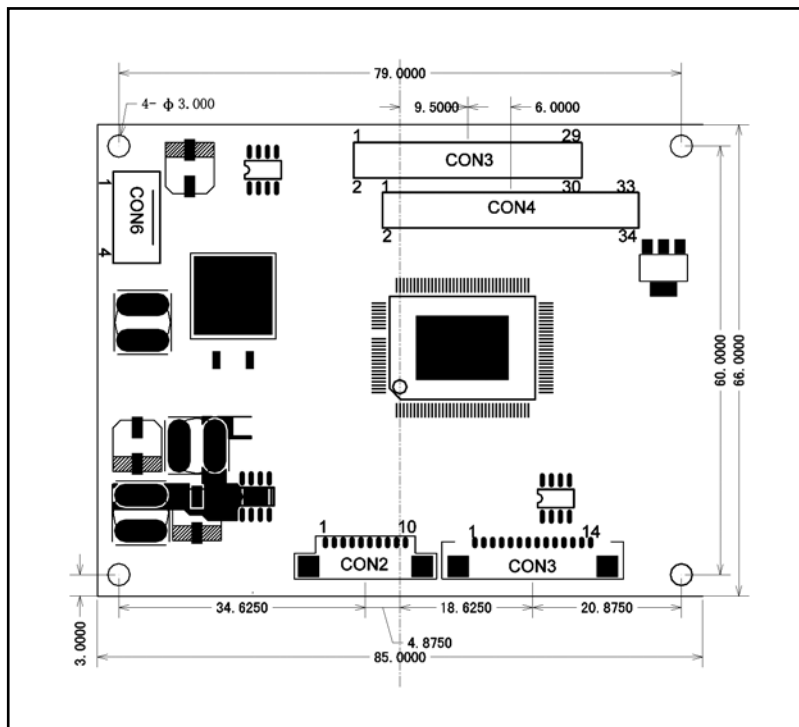
Type: MOLEX 53261-1071 or Compatible

Pin No.	Definition	Pin No.	Definition	Pin No.	Definition	Pin No.	Definition	Pin No.	Definition
1	LED-RED	3	SENSOR	5	+3.3V	7	MENU	9	RIGHT
2	LED-GREEN	4	GND	6	POWER	8	LEFT	10	ENTER

CON4 Connector for LCD Module (LVDS/34 pin)

Type: MOLEX-87758-34 or Compatible

Pin No.	Definition	Pin No.	Definition	Pin No.	Definition	Pin No.	Definition	Pin No.	Definition
1	IN0-	8	CLK-	15	NC	22	NC	29	VCC (+3.3V)
2	IN0+	9	CLK+	16	NC	23	NC	30	VCC (+3.3V)
3	IN1-	10	NC	17	GND	24	GND	31	VCC (+3.3V)
4	IN1+	11	NC	18	NC	25	GND	32	VCC (+3.3V)
5	IN2-	12	NC	19	NC	26	GND	33	NC
6	IN2+	13	NC	20	NC	27	GND	34	NC
7	GND	14	GND	21	NC	28	VCC (+3.3V)		

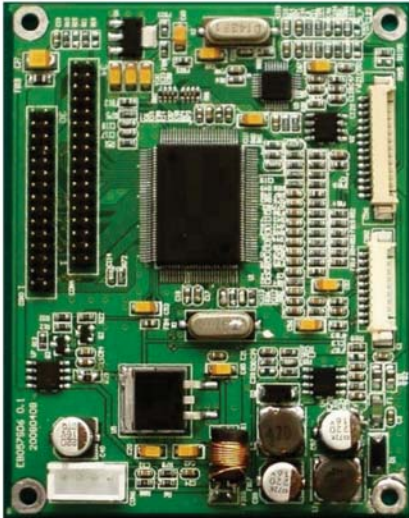




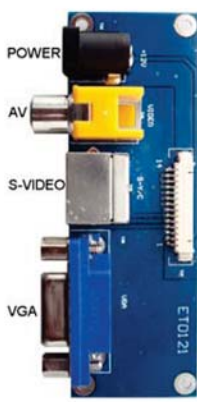



Driver Board Outline Drawing

CON6 Connector for LCD Backlight Driver Board (4 pin)

Type: JST B4B-XH-A or Compatible

Pin No.	Definition
1	+12V
2	GND
3	ON/OFF*
4	NC

* Backlight control switch (ON: 5V, OFF: 0V)

Driver Board

A	DRIVER BOARD		Cable for DEMO KIT	Panel Cable	B/L Cable	B/L DRIVER BOARD
						
B	DEMO KIT	KEYBOARD	Cable for KEYBOARD		Remote Control	
						

Note: The parts in Column B are optional.