



SPECIFICATION FOR APPROVAL

MODEL: CAD003



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1. General Description

1.1 Introduction

The F2281L is highly integrated TFT flat panel interface board that allows connect analog, 15 pin RGB source with TFT panels. From a single 12 V power supply, the CAD003 generates all the voltages required by the TFT panel and includes the power sequencing features. The CAD003 is capable of displaying FULL HD and lower resolutions. Synchronization signals of applicable resolution modes can be detected automatically.

1.2 Technical Information Summary

Analog RGB Input port

- Support up to 1920 X 1080
- Support for Sync-on-Green (SOG)

DVI Compliant Digital Input

- Single link on chip TMDS receiver
- Long cable support to 1.65Ghz

Scaling

- Support non-linear scaling from 4:3 to 16:9 or 16:9 to 4:3

Audio: 2W x 2

OSD key: Up to 7 KEY.

1.2 Power consumption

Panel: AU 19"

DC IN: 12V

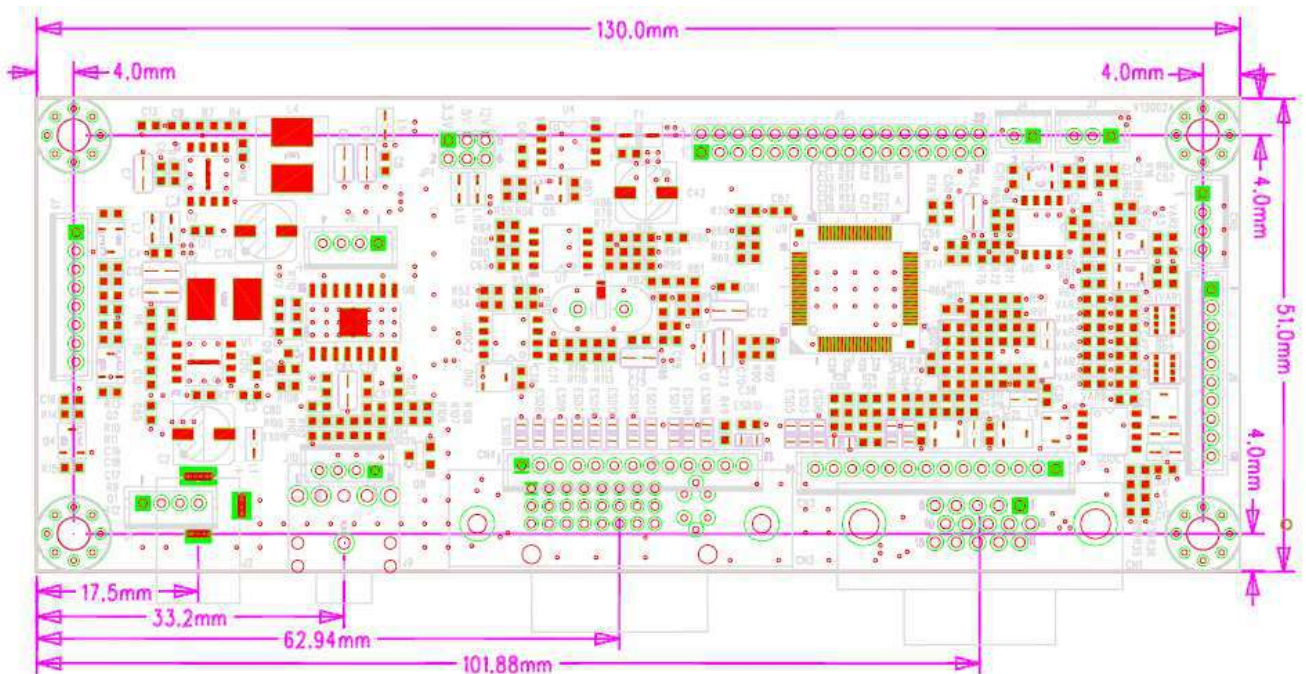
Inverter: 4 Lamp

Resolution: 1280 X 1024 75Hz

Condition	Audio minimum	Audio maximum
A/D Board only	3W	
A/D Board + Panel + Inverter	26W	28W
Power saving	0.4W	

2. Dimension & Pin definition

Dimension: 130mm (L) *51 mm (W)* 14.2mm(H)



2.1 PIN 定義

Item	SPECIFICATION	Description
LVDS Output	32 PIN	J5
VGA	14 PIN	CN2
DVI	13 PIN	CN4
OSD KEY	10 PIN	J6
Inverter	5 PIN	J3
Speaker Out	4 PIN	J8
Audio In	4 PIN	J10
POWER	4 PIN	J1

LVDS OUT (J5)

PIN	FUNCTION	PIN	FUNCTION
1	VCC	2	VCC
3	RX00-	4	RX00+
5	RX01-	6	RX01+
7	RX02-	8	RX02+
9	GND	10	GND
11	RX0C-	12	RX0C+
13	RX03-	14	RX03+
15	GND	16	GND
17	RXE0-	18	RXE0+
19	RXE1-	20	RXE1+
21	RXE2-	22	RXE2+
23	GND	24	GND
25	RXEC-	26	RXEC+
27	RXE3-	28	RXE3+
29	GND	30	GND
31	NC	32	NC

OSD KEY : J6 WAFER 10 pin 2.0mm

PIN	FUNCTION	PIN	FUNCTION
1	GREEN-LED	2	GND
3	RED-LED	4	POWER-KEY
5	MENU-KEY	6	AUTO-KEY
7	RIGHT-KEY	8	LEFT-KEY
9	UP-KEY	10	DOWN-KEY

Back Light(PWM 調光)

J3 WAFER 5pin 2.0mm

PIN	Function	PIN	Function
1	+12V	2	GND
3	Brightness	4	GND
5	ON/OFF		-

Speaker out: J8 WAFER 4pin 2.0mm

PIN	FUNCTION	PIN	FUNCTION
1	AUDIO LOUT	2	GND
3	AUDIO ROUT	4	GND

Power in: J1 WAFER 4pin 2.0mm

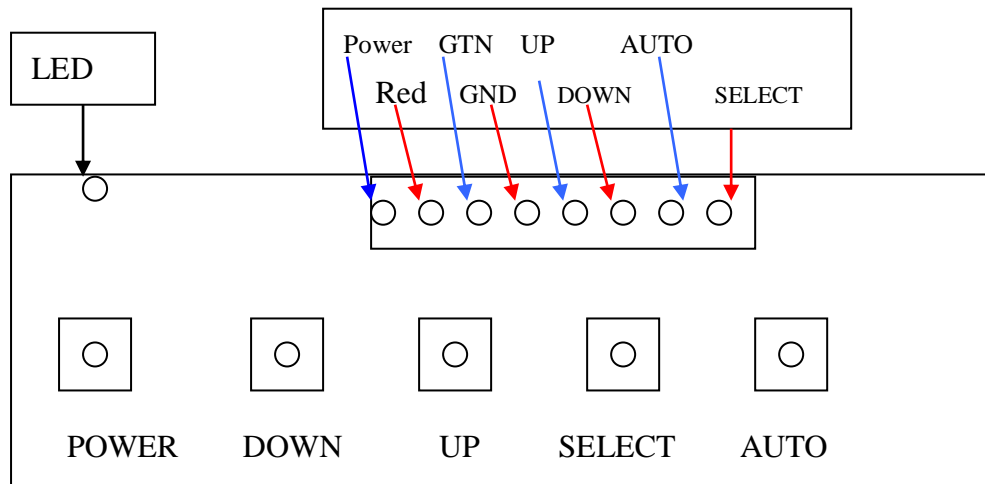
PIN	FUNCTION	PIN	FUNCTION
1	+12V	2	+12V
3	GND	4	GND

3. Applicable Timing

Resolution	Refresh Rate	Horizontal Frequency	Pixel Frequency	Standard Type	Remarks
640 x 400	70 Hz	31.46 KHz		VESA Standard	
720 x 400	70 Hz	31.46 KHz		VESA Standard	
640 x 480	60 Hz	31.50 KHz	25.175 MHz	Industrial Standard	
	72 Hz	37.90 KHz	31.500 MHz	VESA Standard	
	75 Hz	37.50 KHz	31.500 MHz	VESA Standard	
800 x 480	60Hz	31.0 KHz	33.750 MHz	VESA Standard	
800 x 600	60 Hz	37.9 KHz	40.000 MHz	VESA Guideline	
	72 Hz	48.10 KHz	50.000 MHz	VESA Standard	
	75 Hz	46.90 KHz	49.500 MHz	VESA Standard	
1024 x 768	60 Hz	48.40 KHz	65.000 MHz	VESA Guideline	
	70 Hz	56.5 KHz	75.000 MHz	VESA Standard	
	75 Hz	60.00 KHz	78.750 MHz	VESA Standard	
1280 x 1024	60 Hz	64.00 KHz	108.000 MHz		
	75 Hz	80.00 KHz	135.000 MHz		
1360 x 768	60Hz	47.70KHz	85.500MHz		
1440 x 900	60Hz	59.9KHz	106.500MHz		
	75Hz	75.0KHz	136.750MHz		
1600 X 1200	60Hz	75.0KHz	162.000MHz		
	75Hz	93.8KHz	202.500MHz		
1680 X 1050	60Hz	64.7KHz	119.000MHz		
	75Hz	74.9KHz	187.000MHz		
1920 X 1080	60Hz	59.9KHz	106.500MHz		

4. LCD OSD Setting

4.1 OSD Control Button



Down / Left (◀): Decrease setting or scroll down the menu bar

Up / Right (▶): increase setting or scroll up the menu bar

SELECT (MENU): Activate OSD menu

Power: Turn on or off the main board

4.2 OSD (On Screen Display)

4.2-1

Picture



4.2-2

Display



4.2-3

Color



4.2-4

Advance



4.2-5

Source



4.2-6

Audio



4.2-7

Other



4.2-8

Information



5. Burn in mode & other setting

5.1 Burn in mode

When no input signal, you can press “MENU” key & “POWER” key at same time to run the

“Burn in” mode, when the VGA or DVI signal input, will return to normal mode.

5.2. Factory mode