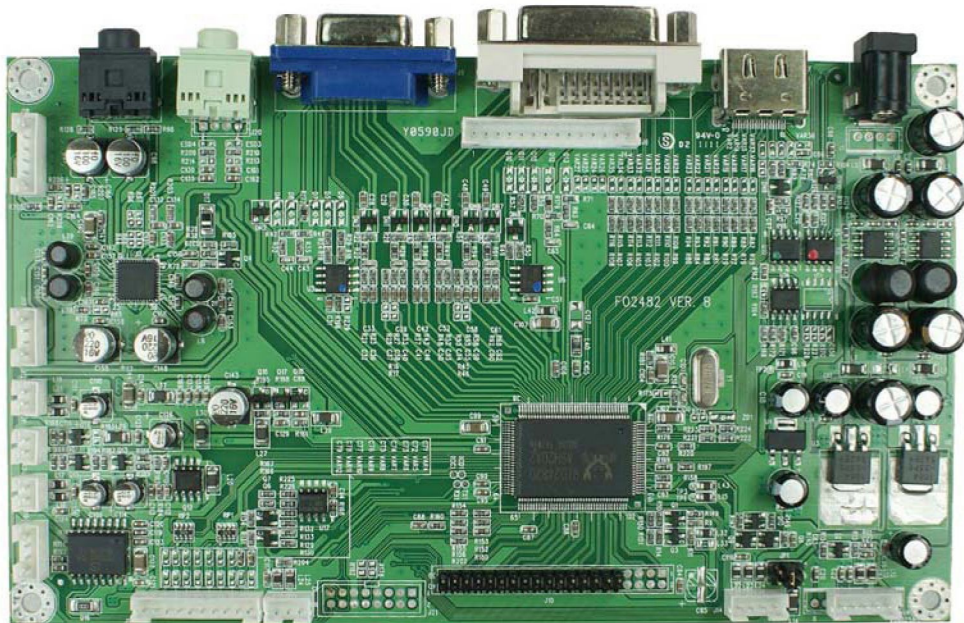


AtoD BOARD

Model: **DA003**



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1. General Description

1.1 Introduction

The DA003 is design for Full HD TFT flat panel interface board, the DA003 has below features:

- HDMI X 1
- DVI-I X 1
- VGA X 1
- RS232 and Remote control OSD
- Audio I/F
- +12V, +5V Output
- I2C I/F

1.2 Electrical Characteristics

Item	Symbol	Min	Max	Unit
Power Supply	Vs	11.5	12.5	V
Panel Power	Vp	4.8	12	V
Brightness	BL-ADJ	0.1	3.6	V
Panel On/Off	ON OFF	0.5	5	V

1.3 Power consumption

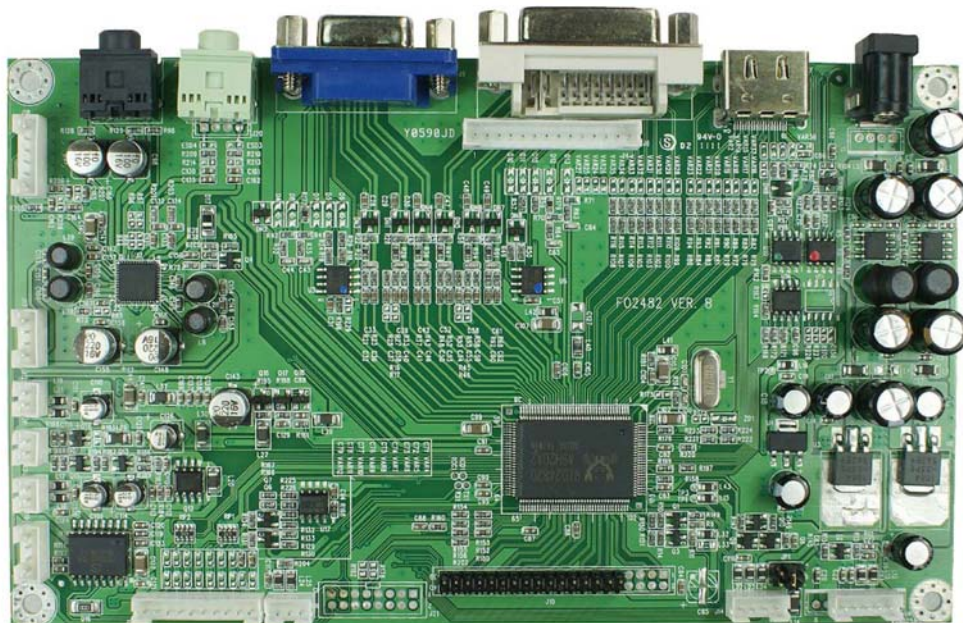
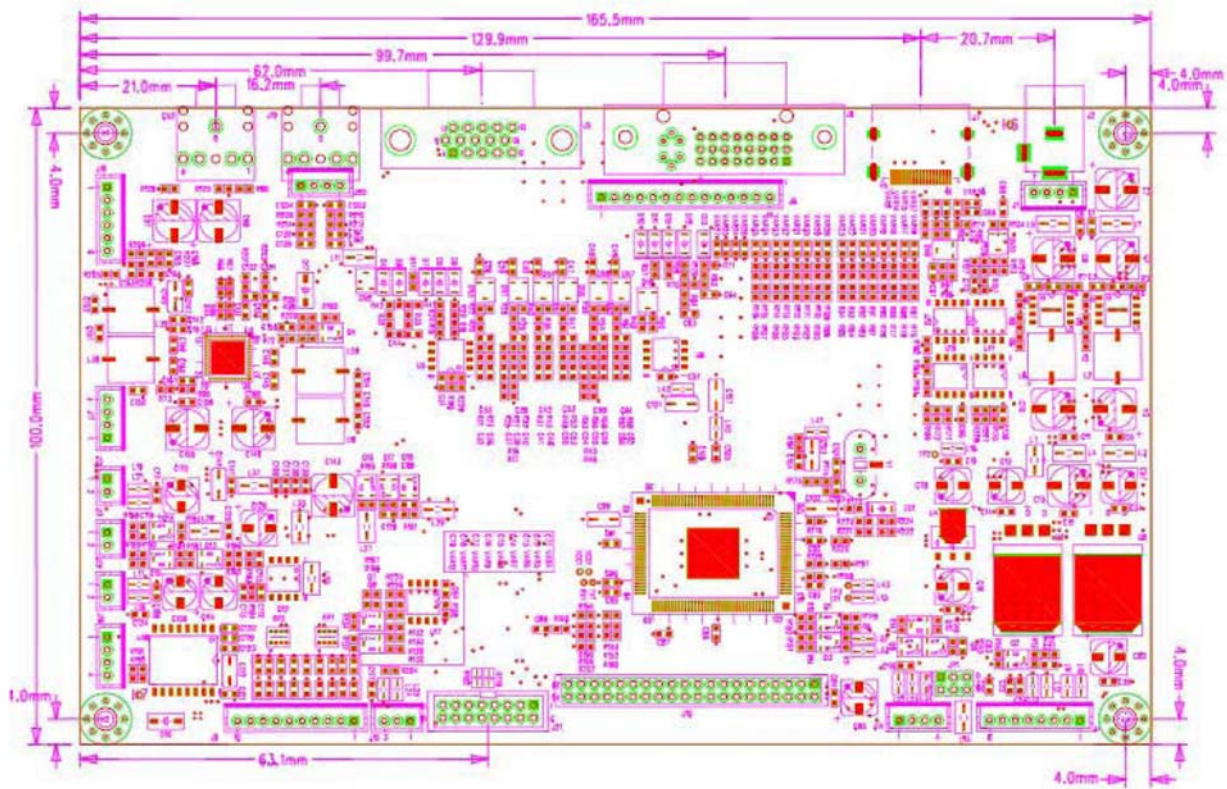
Resolution: 1920 X 1080 60Hz

VIN: DC 12V

Item	Min	Max	Unit
A/D Board only	5	7.5	W
Power saving	0.7	1	W

2. Dimension & Cable connectors

2.1 Dimension: 165.5mm (L) *100 mm (W)* 12mm(H)



2.2 PIN DESCRIPTIONS

LVDS OUT (J10) 2.0mm

PIN	FUNCTION	PIN	FUNCTION
1	10b_E0-	2	10b_E0+
3	10b_EI-	4	10b_EI+
5	GND	6	GND
7	VCC	8	VCC
9	VCC	10	VCC
11	10b_E2_8b_E0-	12	10b_E2_8b_E0+
13	10b_EC_8b_EI-	14	10b_EC_8b_EI+
15	10b_E3_8b_E2-	16	10b_E3_8b_E2+
17	GND	18	GND
19	10b_E4_8b_EC-	20	10b_E4_8b_EC+
21	10b_O0_8b_E3-	22	10b_O0_8b_E3+
23	GND	24	GND
25	10b_OI_8b_O0-	26	10b_OI_8b_O0+
27	10b_O2_8b_OI-	28	10b_O2_8b_OI+
29	10b_OC_8b_O2-	30	10b_OC_8b_O2+
31	GND	32	GND
33	10b_O3_8b_OC-	34	10b_O3_8b_OC+
35	10b_O4_8b_O3-	36	10b_O4_8b_O3+
37	GND	38	GND
39	NC	40	NC

POWER I/F (J4)

WAFER 8pin 2.0mm

PIN	Function	PIN	Function
1	+5V	2	+12V
3	GND	4	Brightness
5	GND	6	ON/OFF
7	5VSTB	8	PS ON

OSD KEY (J9)

WAFER 10pin 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

Extend I/F (J18)

WAFER 6pin 2.0mm

PIN	FUNCTION
1	IROUT
2	GND
3	POWERCTRL
4	EXAUDL
5	GND
6	EXAUDR

IR I/F (J15)

WAFER 7pin 2.0mm

PIN	FUNCTION
1	3.3V
2	IRIN
3	GND

3. Applicable Timing

Resolution	Refresh Rate	Horizontal Frequency	Pixel Frequency	Standard Type	Remarks
640 x 480	60 Hz	31.50 KHz	25.175 MHz	Industrial Standard	
	75 Hz	37.50 KHz	31.500 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		
1440 x 900	60Hz	59.9KHz	106.500MHz		
	75Hz	75.0KHz	136.750MHz		
1920 X 1080	60Hz	59.9KHz	106.500MHz		

4. LCD OSD Setting

4.1

Color



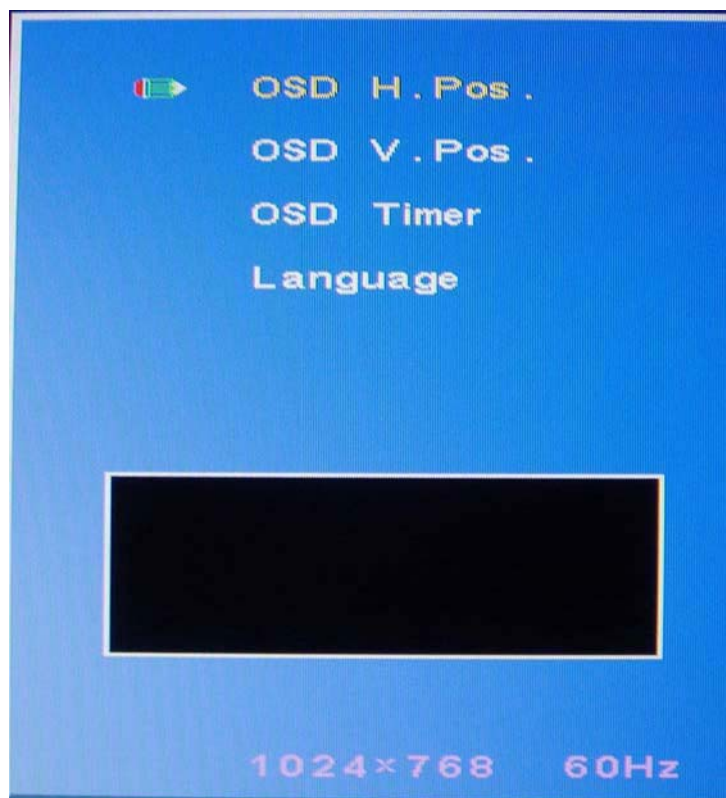
4.2

Image setting



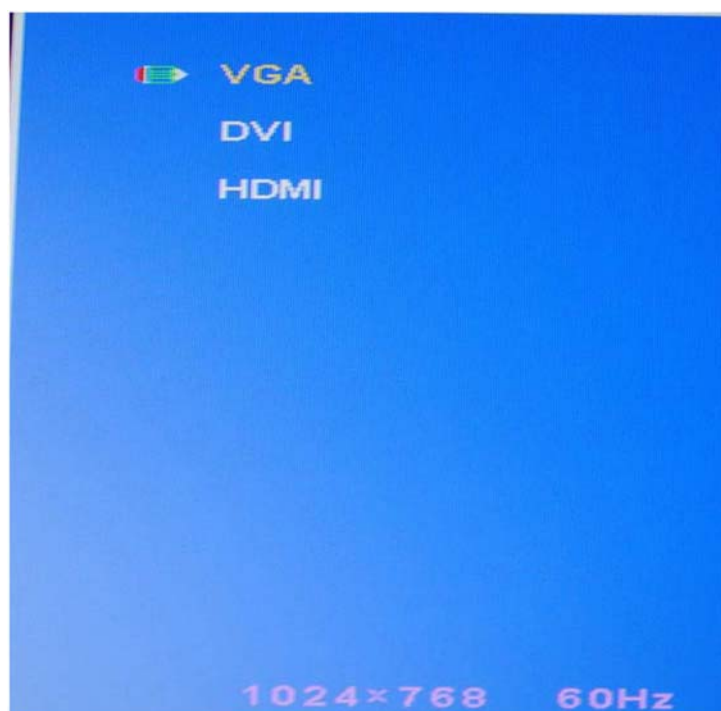
4.3

OSD



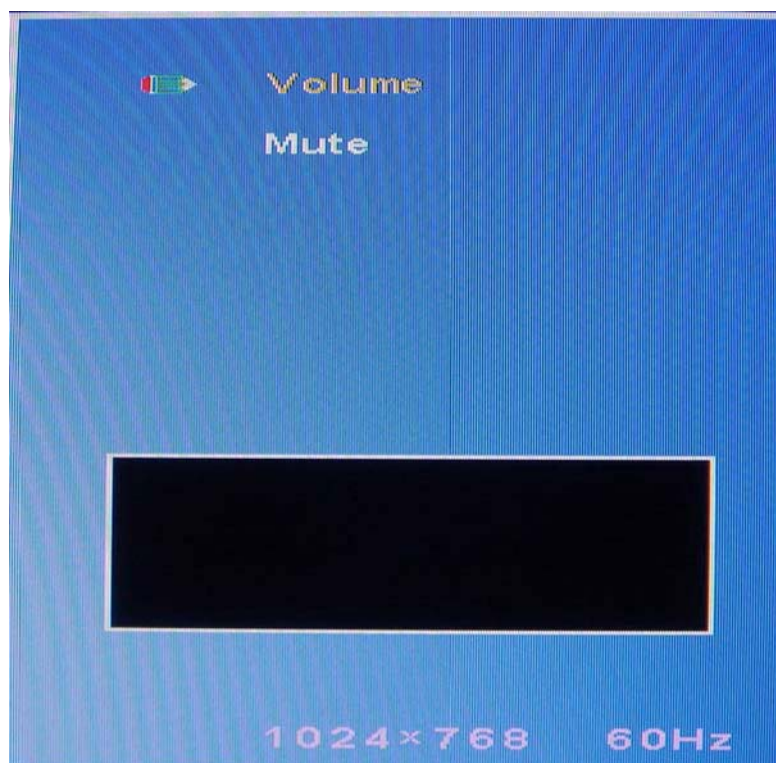
4.4

Source



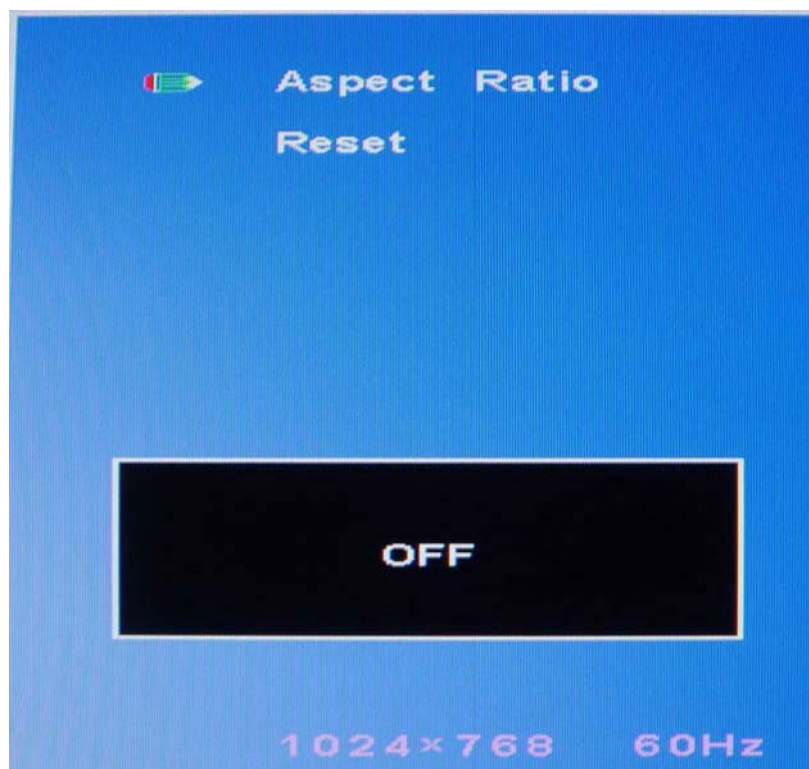
4.5

Audio



4.6

Special



5. Burn in mode

When no signal input, press "EXIT" key & "POWER" key at same time to run the "Burn in" mode, and will return to the normal mode when any source signal input.