
LCD display control panel specifications

Model: ND-2668C

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1: Product Overview

The product is currently the company introduced the latest LCD driver board design and development of a product, for 6.4 to 21 inches between the interface type is a variety of single-port LVDS LCD display, enabling analog HD signal and composite video the input signal can achieve a maximum resolution of 1920 * 1080; this product has exquisite style OSD interface, ten kinds of OSD language options.

2: A description of the properties

This section lists the products with the detailed functional characteristics, see table below

Signal Input	HDMI	Support model	DOS、VGA、SVGA、XGA、SXGA、UXGA、WUXGA+
		Color	32BIT
		Line Sync angel	30---80KHz
		Vertical sync range	56---75Hz
	Audio	Output Power	No
Interface	HDMI INPUT	19 pin HDMI terminal	
	Power Input	4PIN PH2.0	
	Audio Input	NO	
	Key board	10N PH2.0	
	Go screen interface	50PIN FFC 0.5MMOR2.0 2*10LVDSLily	
	INVERTER Interface	6PIN PH2.0	
	Audio Output	6PIN PH2.0 audio signals	
Power supply	Input Power	DC 12V (+/-0.6V)	
	To the screen voltage	3.3V	
	Supply operation	Normal operating mode, a low-power mode	
	Power Management	Standby power consumption <1W	
Other	Key functions defined	Power、 Menu 、 + 、 — 、 Auto	
	OSD Language	English, French, Russian, Spanish, Korean, Simplified Chinese, Traditional Chinese, Italy, Portugal, Japan,	
	OSD Function	Image Adjust automatically adjusts the color adjustment menu to adjust	

3: Analog R, G, B support model table

This section shows the detailed simulation of the product can support R, G, B mode with its field frequency, the line frequency and resolution.

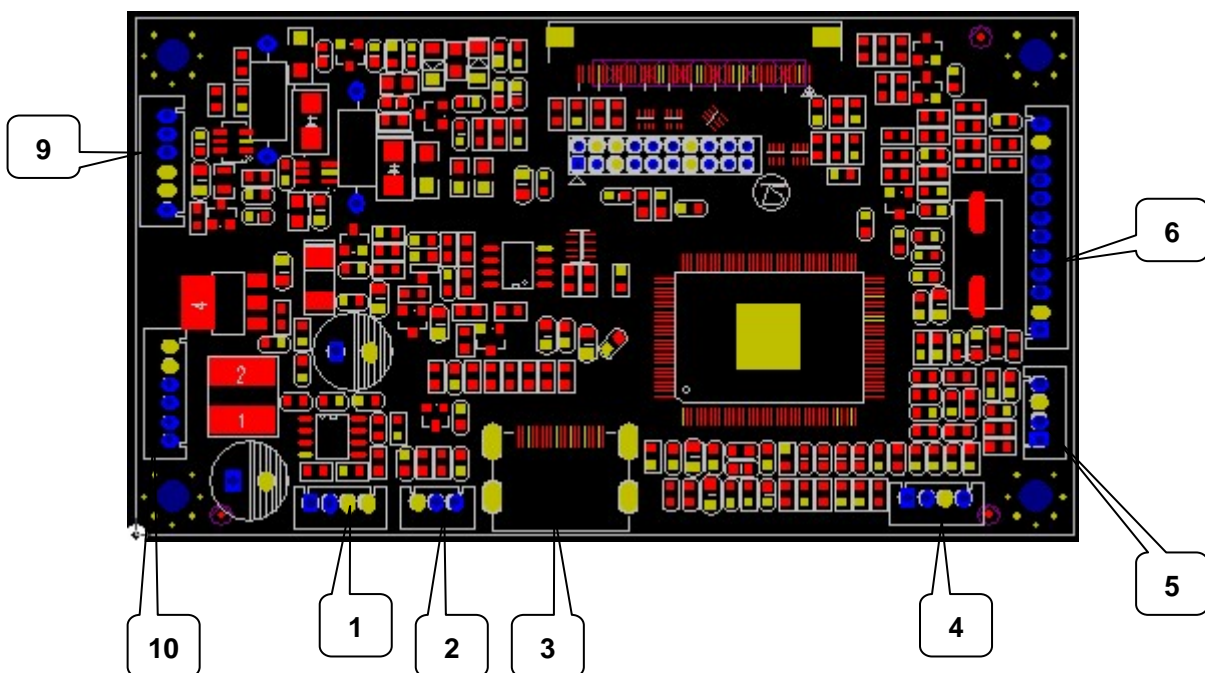
Analog R, G, B Mode Table

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Standard
XGA	1024X768	48.4	60	VESA
		56.5	70	
		60.0	75	
SVGA	800X600	37.9	60	VESA
		47.2	72	
		46.9	75	
VGA	640X480	31.5	60	VESA
		37.9	72	
		37.5	75	
DOS	640X480	31.5	60	VESA
	720X400	31.5	70	

4 Product Description Appearance

This section provides examples of pictures in conjunction with the product detailed description of each of the main interface and its functionality can be exposed

Production



Interface Functional Description

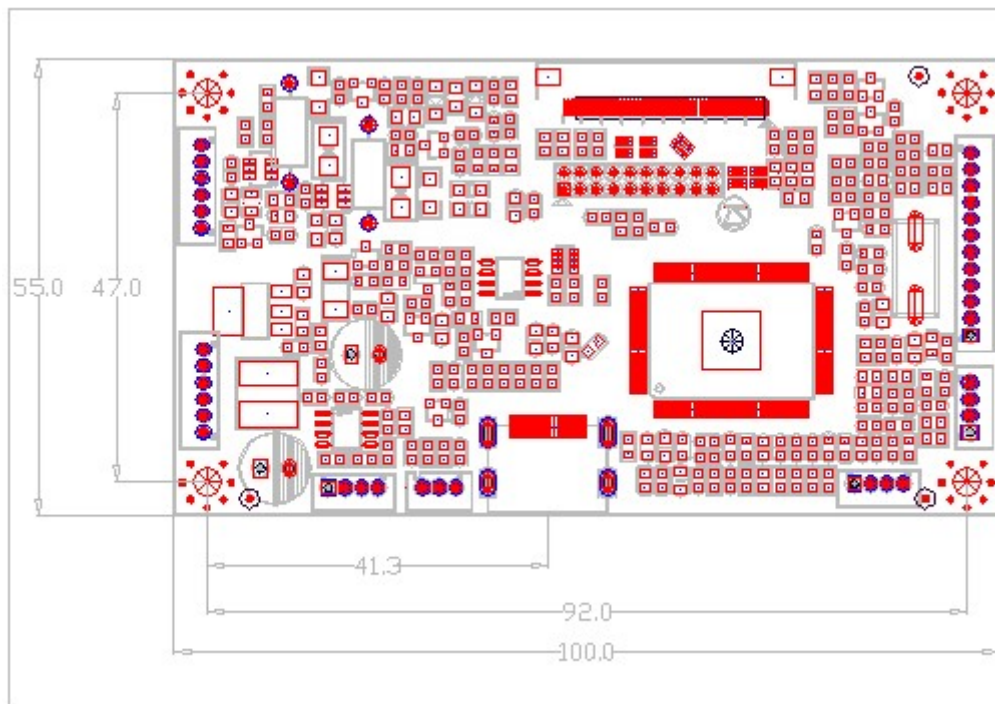
No.	Functional Description	No.	Functional Description
1	Power Input	2	Upgrade Program Interface
3	HDMI input	4	AV1 input
5	AV2input	6	Button interface
7	50PIN FPCPoint-screen interface	8	LVDS interface
9	Audio Control Interface	10	Inverter Interface

1: Rodut Description PCB size and the structure of

1.1: CB Size Description

- ✧ PCB thickness + the maximum height = 11.0 mm
- ✧ PCB Length = 100.0mm
- ✧ PCB width = 55 mm
- ✧ screw holes Specifications: Diameter 3.5 mm screw hole, see the diagram on the next page

2 : Sucture



3 : Transport, storage, use requirements

- ◇ Not affected by stress and bending deformation
- ◇ anti-static and water
- ◇ Relative humidity: $\leq 80\%$
- ◇ Storage Temperature: $-10 \sim +60 \text{ }^\circ\text{C}$
- ◇ Operating temperature: $0 \sim +40 \text{ }^\circ\text{C}$

5: OSD Description

Here only the OSD style and simple functionality Cato framework to facilitate your better understanding of the product, such as found described herein OSD and you actually buy the product there is a difference, please you with my company to provide you corresponding to specific products "OSD operating instructions" shall prevail.

6: Main Interface Definition Description (from left to face the direction of outlet gap for the first leg)

20PIN 2.0 2 * 10LVDS lily: LVDS Signal output		
Pin number	Definition	Description
1	PVCC	GND
2	PVCC	Vertical Sync
3	PVCC	Line synchronization
4	GND	GND
5	GND	GND
6	GND	GND
7	0-	LVDS Signal
8	0+	LVDS Signal
9	1-	LVDS Signal
10	1+	LVDS Signal
11	2-	LVDS Signal
12	2+	LVDS Signal
13	GND	GND
14	GND	GND
15	CLK-	LVDS Signal
16	CLK +	LVDS Signal
17	3-	LVDS Signal
18	3+	LVDS Signal

8PIN PH2.0 90 degree bend Block: button interface

Pin number	Definition	Description
1	VCC	IR POWER
2	GND	GND
3	IR	IR
4	K1	POWER
5	K2	LEFT
6	K3	RIGHT
7	K4	AUTO-EXIT
8	K5	MENU

50PIN FFC 0.5MM: TTL Interface

Pin number	Definition	Description
1	VLED+	Power for LED backlight (Anode)
2	VLED+	Power for LED backlight (Anode)
3	VLED-	Power for LED backlight (Cathode)
4	VLED-	Power for LED backlight (Cathode)
5	GND	Power ground
6	VCOM	Common voltage
7	DVDD	Power for Digital Circuit
8	MODE	DE/SYNC mode select
9	DE	Data OUT Enable
10	VS	Vertical Sync OUT
11	HS	Horizontal Sync OUT
12	B7	Blue data(MSB)
13	B6	Blue data
14	B5	Blue data
15	B4	Blue data
16	B3	Blue data
17	B2	Blue data
18	B1	Blue data
19	G0	Blue data(LSB)
20	G7	Green data(MSB)
21	G6	Blue data

22	G5	Blue data
23	G4	Blue data
24	G3	Blue data
25	G2	Blue data
26	G1	Blue data
27	G0	Blue data(LSB)
28	R7	Green data(MSB)
29	R6	Blue data
30	R5	Blue data
31	R4	Blue data
32	R3	Blue data
33	R2	Blue data
34	R1	Blue data
35	R0	Blue data(LSB)
36	GND	Power Ground
37	DCLK	Sample clock
38	GND	Power Ground
39	L/R	Left / right selection
40	U/D	I Up/down selection
41	VGH	Gate ON Voltage
42	VGL	Gate OFF Voltage
43	AVDD	Power for Analog Circuit
44	RESET	Global reset pin.
45	NC	No connection
46	VCOM	Common Voltage
47	DITHB	Dithering function
48	GND	Power Ground
49	NC	No connection
50	NC	No connection

4PIN PH2.0: AV signal input

Pin number	Definition	Description
1	AV	Composite sync signal
2	GND	GND
3	AV-R	AV Audio right channel
4	AV-L	AV Audio left