



深圳市晶心石英技术有限公司

Shenzhen jingxin quartz technology co. Ltd.

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JX_M10_LED Spec.规格书

(LCD /LED机芯板 Display driver board)

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一、性能简介 Performance Introduction:

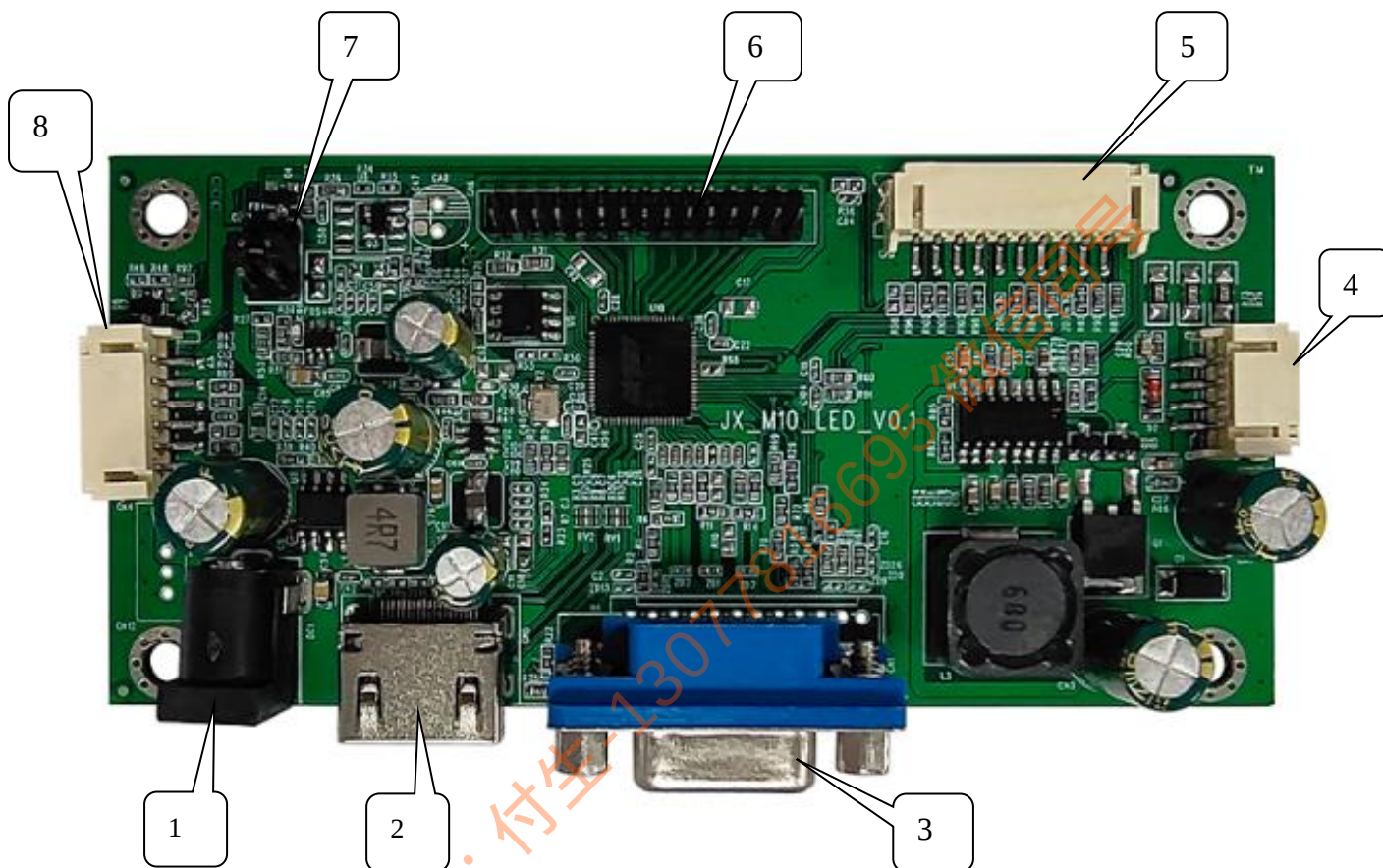
该产品采用国产芯片显示处理 IC，具有画质好，系统成熟等特点，支持 LVDS，主要针对 32" 及以下尺寸液晶产品设计

- 输入信号： VGAx1、HDMI(1.3)
- 支持屏分辨率 1920*1080
- 多国 OSD 菜单语言
- 带背光升压一体设计

二、主要技术参数 The main technical parameters:

视频输入 video input	电脑 computer	分辨率 Resolution	最高 MAX: 1920*1080
		行频 line frequency	30~90KHz
		场频 Field frequency	56~75Hz
	HDMI	480i、480p、576i、576p、720p、1080i、1080p	
OSD 语言	中文 英语 德语 法语 俄语 意大利语 西班牙语 阿拉伯语 波斯语等可选语言		
低功耗 待机功耗:<1W			
按键功能		POWER/MENU/SOURCE/ LEFT/RIGHT	

三、外观图片：



四、主要接口定义说明：

序号	描述	序号	描述
1	电源输入	2	HDMI 输入接口
3	VGA 输入接口	4	背光升压驱动 （最高可达 68V）
5	按键接口	6	LVDS 点屏
7	屏电压选择跳帽：12V 5V 3.3V	8	背光控制接口

说明：工厂默认出厂屏电为 5V



1、背光升压驱动接口

位号：CON3 (SMD PH2.0/2.0MM*4PIN)

管脚定义说明 Pin Definition Description:

脚位号 pin number	名称 Name	说明 illustrate
1	LED-	LED 驱动负极
2	LED-	LED 驱动负极
3	LED+	LED 驱动正极
4	LED+	LED 驱动正极

2、指示灯、按键接口 Indicator light, key interface

位号 Bit number: CN3 (SMD PH2.0MM*13PIN)

管脚定义说明 Pin Definition Description:

脚位号 pin number	名称 Name	说明 illustrate
1	POWER	开关 POWER switch
2	LED-R	红色指示灯/待机时亮
3	LED-G	绿色指示灯/正常工作时亮
4	GND	地
5	RIGHT	按键右 (可自定义)
6	LEFT	按键左 (可自定义)
7	AUTO	信号通道 (可自定义)
8	MENU	菜单 (可自定义)
9	UP	预留键 (可自定义)
10	DOWN	预留键 (可自定义)



3、8/10 位 LVDS 输出接口 8/10-bit LVDS output interface

位号 Bit number: CN6 SIP2.0MM*30PIN

管脚定义说明 Pin Definition Description:

脚位号 pin number	名称 Name	说明 illustrate
1	VCC	供电电源 Power supply for the screen
2	VCC	供电电源 Power supply for the screen
3	VCC	供电电源 Power supply for the screen
4	GND	地 land
5	GND	地 land
6	GND	地 land
7	LVA0-	LVDS 偶线对 0 负端 LVDS even pair 0 negative terminal
8	LVA0+	LVDS 偶线对 0 正端 LVDS even pair 0 positive terminal
9	LVA1-	LVDS 偶线对 1 负端 LVDS even pair 1 negative terminal
10	LVA1+	LVDS 偶线对 1 正端 LVDS even pair 1 positive terminal
11	LVA2-	LVDS 偶线对 2 负端 LVDS even pair 2 negative terminal
12	LVA2+	LVDS 偶线对 2 正端 LVDS even pair 2 positive terminal
13	GND	地 land
14	GND	地 land
15	LVACK-	LVDS 偶线对时钟 负端 LVDS even pair clock Negative terminal
16	LVACK+	LVDS 偶线对时钟 正端 LVDS even pair clock positive terminal
17	LVA3-	LVDS 偶线对 3 负端 LVDS even pair 3 negative terminal
18	LVA3+	LVDS 偶线对 3 正端 LVDS even pair 3 positive terminal
19	LVB0-	LVDS 奇线对 0 负端 LVDS odd pair 0 negative terminal
20	LVB0+	LVDS 奇线对 0 正端 LVDS odd pair 0 positive terminal
21	LVB1-	LVDS 奇线对 1 负端 LVDS odd pair 1 negative terminal
22	LVB1+	LVDS 奇线对 1 正端 LVDS odd pair 1 positive terminal
23	LVB2-	LVDS 奇线对 2 负端 LVDS odd pair 2 negative terminal
24	LVB2+	LVDS 奇线对 2 正端 LVDS odd pair 2 positive terminal
25	GND	地 land
26	GND	地 land
27	LVBCK-	LVDS 奇线对时钟 负端 LVDS Odd Pair Clock Negative
28	LVBCK+	LVDS 奇线对时钟 正端 LVDS Odd Pair Clock Positive
29	LVB3-	LVDS 奇线对 3 负端 LVDS odd pair 3 negative terminal
30	LVB3+	LVDS 奇线对 3 正端 LVDS odd pair 3 positive terminal



4、背光接口 Backlight interface

位号 Bit number: CON4 (SMD PH2.0MM*6PIN)

管脚定义说明 Pin Definition Description:

脚位号 pin number	名称 Name	说明 illustrate
1	GND	5V 电源地 5V power ground
2	GND	背光开关 Backlight switch
3	ADJ	背光调光 Backlight dimming
4	ON/OFF	POWER 开关 POWER switch
5	VCC	12V 电源 12V power supply
6	VCC	12V 电源 12V power supply

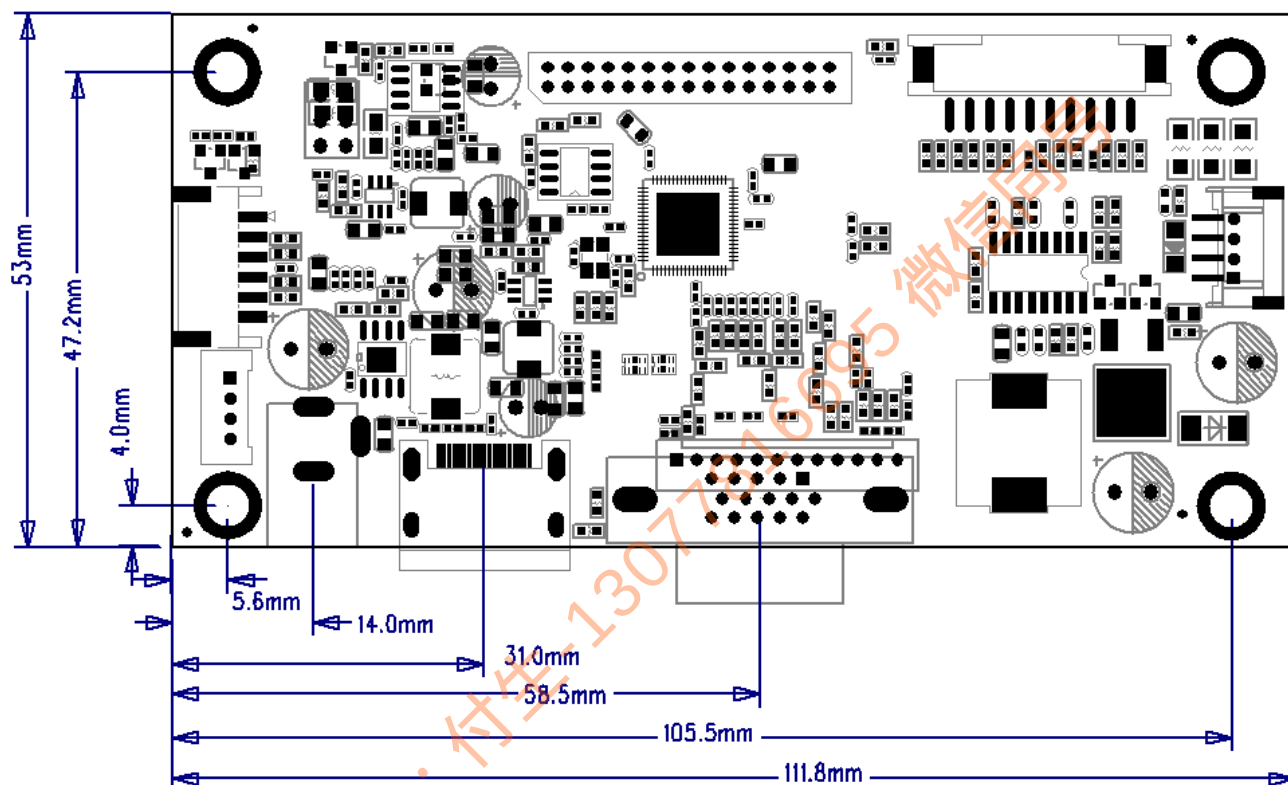
5、供电电压可选接口

位号 Bit number: CON1 SIP2.54MM*2/3PIN

管脚定义说明 Pin Definition Description:

脚位号 pin number	名称 Name	说明 illustrate
1 脚	3.3V	3.3V 供电接口 3.3V
2 脚	5V	5V 供电接口 5V
3 脚	12V	12V 供电接口 3.3V
4 脚	屏供电	屏供电输入接口
5 脚	屏供电	屏供电输入接口
6 脚	屏供电	屏供电输入接口

五，结构尺寸 Structure size:





六、电气性能 Electrical properties:

参数 parameter	最小 (MIN)	标准 (TYP)	最大 (MAX)	单位 Unit
工作电压 Operating Voltage	11.25	12	13.25	V
待机电流 stand-by current	10	30	40	MA
工作温度 Operating temperature	-12		75	℃
仓储温度 Storage temperature	-20		85	℃
工作湿度 Working humidity	40		95	%
仓储湿度 Storage humidity	40		95	%

七、注意事项 Precautions:

1、在电源上电前一定先检查电源线是否正确连接，显示屏供电电压是否正确，否则会损坏主板，电源和显示屏

Before powering on the power supply, be sure to check whether the power cord is properly connected and the power supply voltage of the display is correct, otherwise it will damage the motherboard, power supply and display

2、在仓储和装机时一定注意防静电和漏电防护措施，否则会损坏主板和元器件

Be sure to pay attention to anti-static and leakage protection measures during storage and installation, otherwise it will damage the motherboard and components

3、客户在装机前首先确认主板功能是否与要求相符，不要等装好后才发现为时以晚，造成严重的后果

Before installing the machine, the customer first confirms whether the mainboard function meets the requirements. Don't wait for the installation to find out that it is too late, causing serious consequences

4、驱动板工作时请不要随意活动主板和拔插电源接口，以免接触到导电物体，将其损坏

When the drive board is working, please do not move the main board and plug in or out the power interface at will, so as not to touch conductive objects and damage it.

5、在装机时发现不良产品请装好防静电袋整起摆放，退还我司将起修复，不要乱扔乱丢

When you find defective products when installing the machine, please install the anti-static bag and put it up. Return it to our company for repair. Don't throw it away.



6、如果板卡表面有污迹，请断电后使用干软布清理

If there are stains on the surface of the board, please use a dry soft cloth to clean it after power off.

7、请勿受重压，弯折，雨淋将起损坏

Please don't put under heavy pressure, bend, rain will cause damage.

备注 Remarks:

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