



# 深圳市晶心石英技术有限公司

Shenzhen jingxin quartz technology co. Ltd.

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## JX\_7362LH\_V1.0.规格书

(LCD /LED机芯板 Display driver board)

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| APPROVED BY                   | NOTE |
|-------------------------------|------|
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## 一、性能简介 Performance Introduction

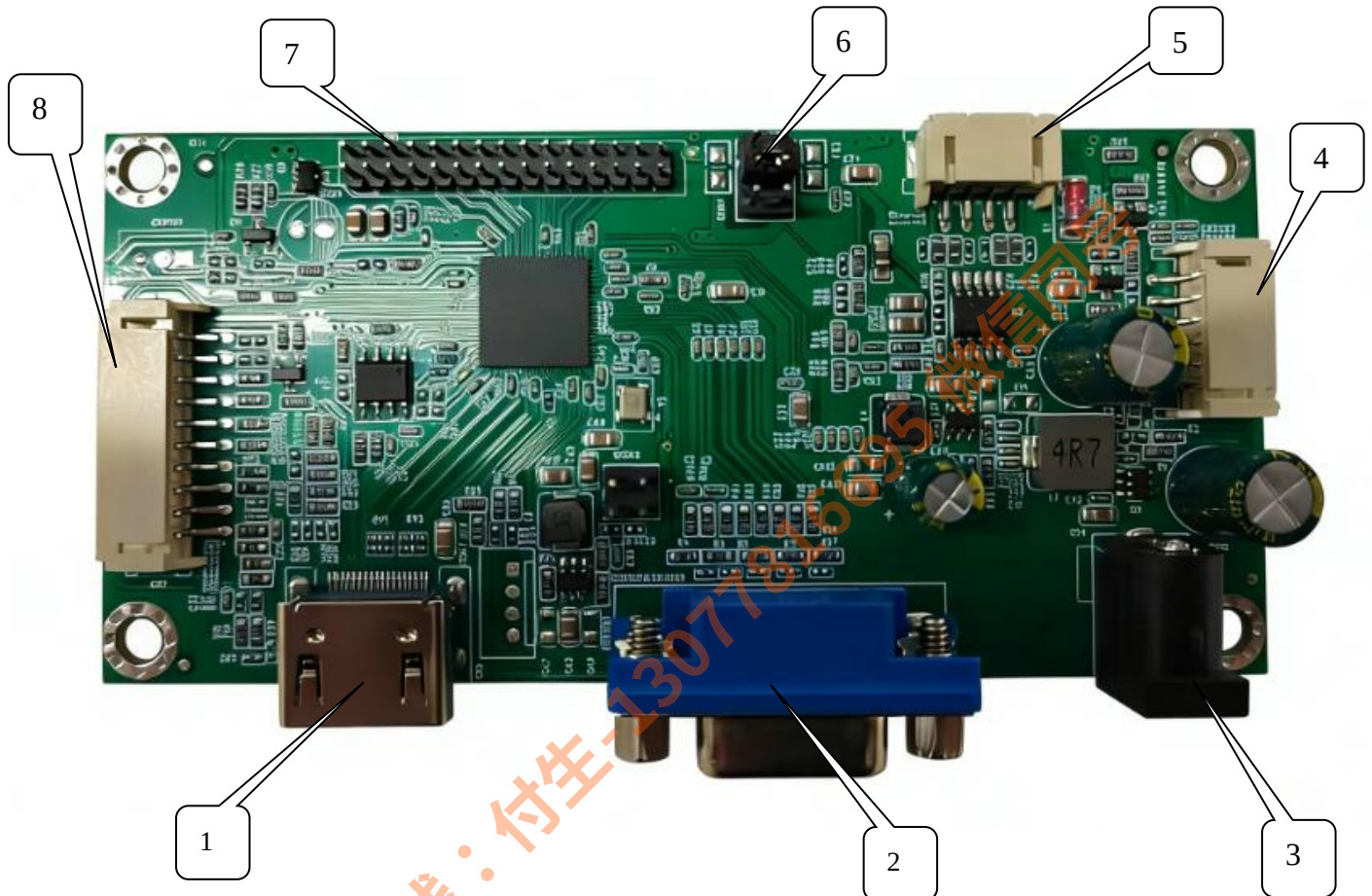
该产品采用国产芯片显示处理 IC，具有画质好，系统成熟等特点，支持 LVDS，主要针对 32" 及以下尺寸液晶产品设计，支持 1920×1080@144Hz

- 输入信号：VGA X1、HDMI X1(1.3)
- 支持屏分辨 1920\*1080
- 多国 OSD 菜单语言
- 支持 hdmi 音频输出

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

|                     |                                         |                                      |                   |
|---------------------|-----------------------------------------|--------------------------------------|-------------------|
| 视频输入<br>video input | 电脑 computer                             | 分辨率 Resolution                       | 最高 MAX: 1920*1080 |
|                     |                                         | 行频 line frequency                    | 30~90KHz          |
|                     |                                         | 场频 Field frequency                   | 56~144Hz          |
|                     | HDMI                                    | 480i、480p、576i、576p、720p、1080i、1080p |                   |
| 视频输出                | LVDS                                    | 支持 1080p                             |                   |
| 音频输出                | 功放                                      | 2 X 3W 8R                            |                   |
| 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 等 8 国语言可选 |                                      |                   |
| 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  | VGA 输入接口             |
| 3  | HDMI 输入接口 | 4  | 背光控制接口               |
| 5  | 喇叭接口      | 6  | 屏电压选择跳帽: 12V 5V 3.3V |
| 7  | LVDS 点屏   | 8  | 按键接口                 |
|    |           |    |                      |

说明: 工厂默认出厂屏电为 5V



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## 1、喇叭声音输出接口

位号：J1( 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              | ROUT+   | 右声道输出+ Right channel output+  |
| 2              | ROUT-   | 右声道输出- Right channel output - |
| 3              | LOUT-   | 左声道输出- Left channel output -  |
| 4              | LOUT+   | 左声道输出+ Left channel output +  |

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

位号 Bit number: CN2 (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 land          |
| 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              |         |                 |
| 10             |         |                 |

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## 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<br>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      |

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## 4、背光接口 Backlight interface

位号 Bit number: CN4 (SMD PH2.0MM\*6PIN)

管脚定义说明 Pin Definition Description:

| 脚位号<br>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<br>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        |

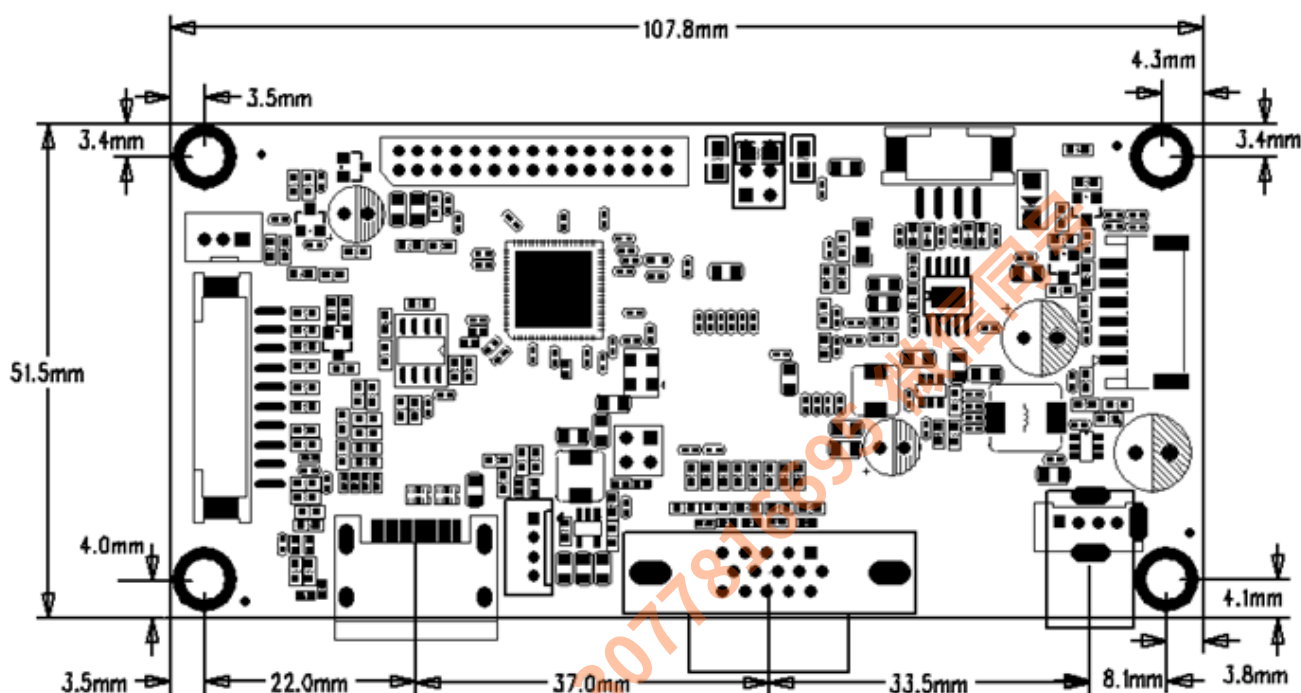
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## 五、结构尺寸 Structure size



## 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要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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