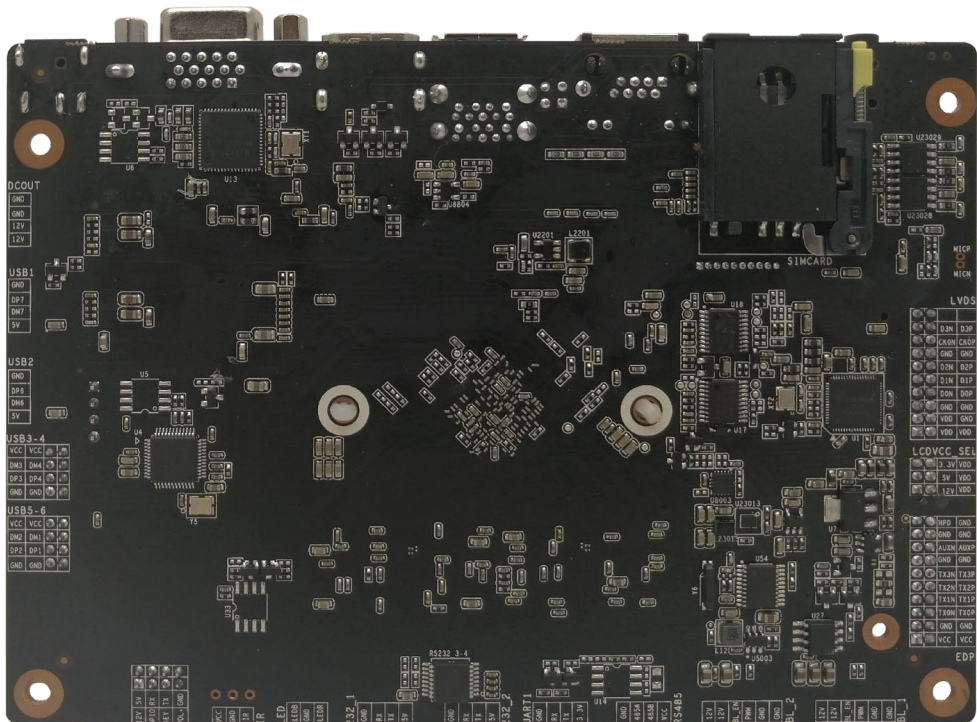
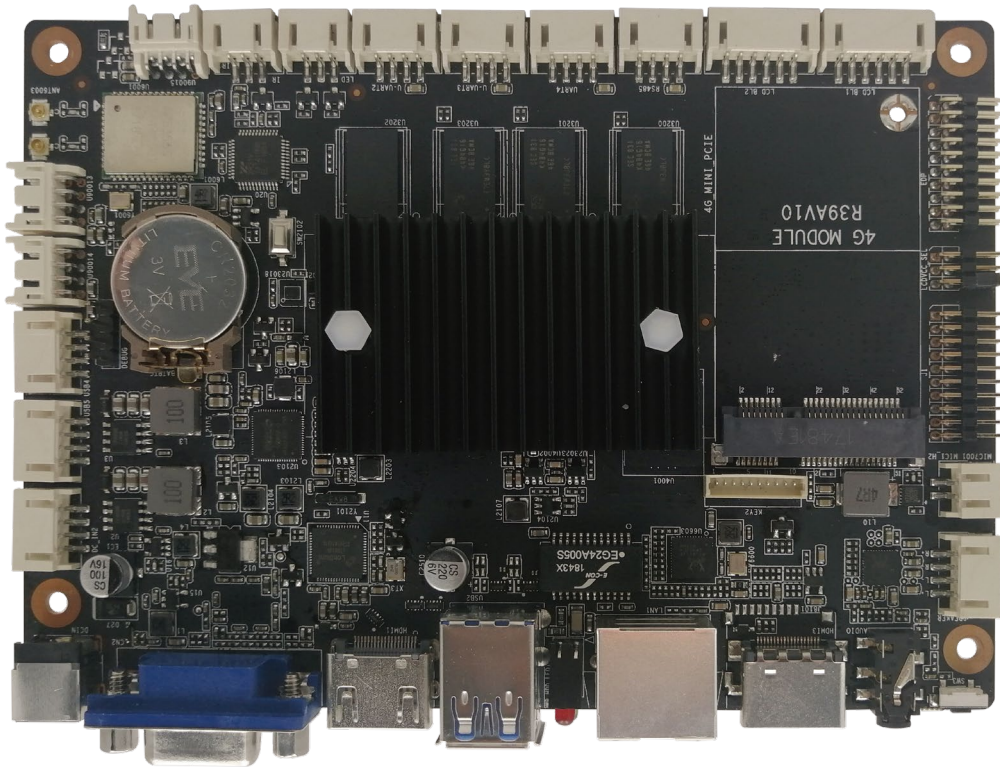


ZA-RK3399 主板

产品使用手册
Product manual

支持RK3399 1.8GHz 六核处理器

ZA-RK3399产品图



产品特性

硬件基本规格

| | |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 板形结构 | 尺寸: 145mm x 105mm |
| CPU | RK3399 1.8GHz 六核处理器 Dual-core Cortex-A72 up to 1.8GHz (双核A72) Quad-core Cortex-A53 up to 1.5GHz (4核A53) |
| GPU | Mali-T864 GPU |
| 系统存储器 | 双通道DDR3 2G/4G可选 |
| 显示屏接口 | LVDS接口(单8/单6)。支持最大分辨率1366*768 两路HDMI输出 一路VGA输出 EDP 2.0接口 最大分辨率: 支持 2K显示屏 |
| LVDS电源 | 3.3V/5V/12V可选 |
| 触摸屏 | 支持USB多点红外触摸, 多点声波触摸, 多点光学触摸。 |
| 网络 | Wifi&BT模块, 支持Wi-Fi 802.11b/g/n/ac 2x2 MIMO (双收双发双天线) 支持BT4.0 10/100/1000M Ethernet RJ45接口 MINI PCIE 3G/4G接口 |
| 图像旋转 | 支持0度, 90度, 180度, 270度手动旋转, (重力感应选贴) |
| 实时时钟 | 内置实时钟供电电池CR2032 (电量充足) |
| 接口设备 | USB3.0 : 2个USB3.0HOST接口 含2个USB2.0OTG 外置RS232: RJ45形式RS232接口 内置 6 USB 2.0 排针 HDMI 2.0输出 4K@60Hz 支持USB摄像头, 最高支持800W像素 支持MIPI接口摄像头, 最高支持500W像素 内置4组串口。可支持各种串口设备 (NFC模块, 打印机, 刷卡器等等) 按键: 电源按键, ADCIN*1, GPIO*1 TF卡, 最大支持32GB 耳机: 3.5mm头输出 喇叭: D类功放支持2 * 4 欧3W喇叭 咪头排针外插咪头 LED: 双色指示灯板载 IR: 红外输入排针 |

软件基本规格

| | |
|------|-----------------------------------------------------------------------------------------------------|
| 操作系统 | Android 7.1及以上 |
| 语言支持 | 多国语言 |
| 系统管理 | Mali-T864 GPU |
| 系统 | 原生态Android系统，开放root权限，可进行产品定制开发 |
| 后台管理 | 可定制本地或远程服务器管理系统 |
| 发布平台 | 支持多款第三方Android远程广告发布系统 |
| 外设支持 | 支持多路串口设备、USB设备、IO控制类设备 |
| 显示 | 支持双屏异显异触 |
| 音频 | MP3, WMA, WAV, APE, FLAC, AAC, OGG, M4A, 3GPP格式 |
| 视频 | 支持H. 264, MPEG2, VP6, VP8, MVC等视频格式的2160P@24FPS解码. YouTube等在线视频、最高可达1080P、HTML5 视频播放、Flash10.1播放 |
| 图片 | 支持JPG、BMP、PNG等各种图片格式浏览 并支持旋转/幻灯片播放/图片放大功能 |

| DCOUT (12V OUT) | <table border="1"> <thead> <tr> <th>脚位</th> <th>定义</th> <th>属性</th> <th>描述</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>+12V</td> <td>电源</td> <td>12V电源输出</td> </tr> <tr> <td>2</td> <td>+12V</td> <td>电源</td> <td>12V电源输出</td> </tr> <tr> <td>3</td> <td>GND</td> <td>地线</td> <td>地线</td> </tr> <tr> <td>4</td> <td>GND</td> <td>地线</td> <td>地线</td> </tr> </tbody> </table> | 脚位 | 定义 | 属性 | 描述 | 1 | +12V | 电源 | 12V电源输出 | 2 | +12V | 电源 | 12V电源输出 | 3 | GND | 地线 | 地线 | 4 | GND | 地线 | 地线 | | | | | | | | | | | | | | | | |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|----|----|---|------|----|---------|---|------|-----|---------|---|-----|-----|---------|---|-----|-----|---------|---|-----|-----|---------|---|-----|-----|---------|---|-----|-----|-----|---|-----|-----|-----|
| 脚位 | 定义 | 属性 | 描述 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | +12V | 电源 | 12V电源输出 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | +12V | 电源 | 12V电源输出 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | GND | 地线 | 地线 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | GND | 地线 | 地线 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| USB1 | <table border="1"> <thead> <tr> <th>脚位</th> <th>定义</th> <th>属性</th> <th>描述</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5V</td> <td>电源</td> <td>5V电源</td> </tr> <tr> <td>2</td> <td>DM</td> <td>I\O</td> <td>USB信号D-</td> </tr> <tr> <td>3</td> <td>DP</td> <td>I\O</td> <td>USB信号D+</td> </tr> <tr> <td>4</td> <td>GND</td> <td>GND</td> <td>GND</td> </tr> </tbody> </table> | 脚位 | 定义 | 属性 | 描述 | 1 | 5V | 电源 | 5V电源 | 2 | DM | I\O | USB信号D- | 3 | DP | I\O | USB信号D+ | 4 | GND | GND | GND | | | | | | | | | | | | | | | | |
| 脚位 | 定义 | 属性 | 描述 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 5V | 电源 | 5V电源 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | DM | I\O | USB信号D- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | DP | I\O | USB信号D+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | GND | GND | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| USB2 | <table border="1"> <thead> <tr> <th>脚位</th> <th>定义</th> <th>属性</th> <th>描述</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5V</td> <td>电源</td> <td>5V电源</td> </tr> <tr> <td>2</td> <td>DM</td> <td>I\O</td> <td>USB信号D-</td> </tr> <tr> <td>3</td> <td>DP</td> <td>I\O</td> <td>USB信号D+</td> </tr> <tr> <td>4</td> <td>GND</td> <td>GND</td> <td>GND</td> </tr> </tbody> </table> | 脚位 | 定义 | 属性 | 描述 | 1 | 5V | 电源 | 5V电源 | 2 | DM | I\O | USB信号D- | 3 | DP | I\O | USB信号D+ | 4 | GND | GND | GND | | | | | | | | | | | | | | | | |
| 脚位 | 定义 | 属性 | 描述 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 5V | 电源 | 5V电源 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | DM | I\O | USB信号D- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | DP | I\O | USB信号D+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | GND | GND | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| USB3-4 | <table border="1"> <thead> <tr> <th>脚位</th> <th>定义</th> <th>属性</th> <th>描述</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5V</td> <td>电源</td> <td>5V电源</td> </tr> <tr> <td>2</td> <td>5V</td> <td>电源</td> <td>5V电源</td> </tr> <tr> <td>3</td> <td>DM1</td> <td>I\O</td> <td>USB信号D-</td> </tr> <tr> <td>4</td> <td>DM2</td> <td>I\O</td> <td>USB信号D-</td> </tr> <tr> <td>5</td> <td>DP1</td> <td>I\O</td> <td>USB信号D+</td> </tr> <tr> <td>6</td> <td>DP2</td> <td>I\O</td> <td>USB信号D+</td> </tr> <tr> <td>7</td> <td>GND</td> <td>GND</td> <td>GND</td> </tr> <tr> <td>8</td> <td>GND</td> <td>GND</td> <td>GND</td> </tr> </tbody> </table> | 脚位 | 定义 | 属性 | 描述 | 1 | 5V | 电源 | 5V电源 | 2 | 5V | 电源 | 5V电源 | 3 | DM1 | I\O | USB信号D- | 4 | DM2 | I\O | USB信号D- | 5 | DP1 | I\O | USB信号D+ | 6 | DP2 | I\O | USB信号D+ | 7 | GND | GND | GND | 8 | GND | GND | GND |
| 脚位 | 定义 | 属性 | 描述 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 5V | 电源 | 5V电源 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5V | 电源 | 5V电源 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | DM1 | I\O | USB信号D- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | DM2 | I\O | USB信号D- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | DP1 | I\O | USB信号D+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | DP2 | I\O | USB信号D+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | GND | GND | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | GND | GND | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| USB5-6 | <table border="1"> <thead> <tr> <th>脚位</th> <th>定义</th> <th>属性</th> <th>描述</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5V</td> <td>电源</td> <td>5V电源</td> </tr> <tr> <td>2</td> <td>5V</td> <td>电源</td> <td>5V电源</td> </tr> <tr> <td>3</td> <td>DM3</td> <td>I\O</td> <td>USB信号D-</td> </tr> <tr> <td>4</td> <td>DM4</td> <td>I\O</td> <td>USB信号D-</td> </tr> <tr> <td>5</td> <td>DP3</td> <td>I\O</td> <td>USB信号D+</td> </tr> <tr> <td>6</td> <td>DP4</td> <td>I\O</td> <td>USB信号D+</td> </tr> <tr> <td>7</td> <td>GND</td> <td>GND</td> <td>GND</td> </tr> <tr> <td>8</td> <td>GND</td> <td>GND</td> <td>GND</td> </tr> </tbody> </table> | 脚位 | 定义 | 属性 | 描述 | 1 | 5V | 电源 | 5V电源 | 2 | 5V | 电源 | 5V电源 | 3 | DM3 | I\O | USB信号D- | 4 | DM4 | I\O | USB信号D- | 5 | DP3 | I\O | USB信号D+ | 6 | DP4 | I\O | USB信号D+ | 7 | GND | GND | GND | 8 | GND | GND | GND |
| 脚位 | 定义 | 属性 | 描述 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 5V | 电源 | 5V电源 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5V | 电源 | 5V电源 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | DM3 | I\O | USB信号D- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | DM4 | I\O | USB信号D- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | DP3 | I\O | USB信号D+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | DP4 | I\O | USB信号D+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | GND | GND | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | GND | GND | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

U90015
(按键接口)

| 脚位 | 定义 | 属性 | 描述 |
|----|--------|-------|----------|
| 1 | 12V | 电源 | 12V输入/输出 |
| 2 | 5V | 电源 | 5V输出 |
| 3 | GPIO | I\O | GPIO |
| 4 | RX | I\O | UART RX |
| 5 | PWRKEY | 开关 | 电源开关 |
| 6 | TX | I\O | UART TX |
| 7 | VOL+ | ADCIN | ADC输入 |
| 8 | GND | GND | GND |

IR
(按键接口)

| 脚位 | 定义 | 属性 | 描述 |
|----|-------|-----|--------|
| 1 | IR-IN | I\O | 红外输入脚 |
| 2 | GND | GND | GND |
| 3 | VCC | 电源 | 3.3V电源 |

LED
(双色灯接口)

| 脚位 | 定义 | 属性 | 描述 |
|----|-------|-----|--------|
| 1 | LED-R | I\O | 红灯控制 |
| 2 | COM | GND | 双色灯公共端 |
| 3 | LED-B | I\O | 蓝灯控制 |

XRTTY1

| 脚位 | 定义 | 属性 | 描述 |
|----|-----|-----|---------|
| 1 | VCC | 电源 | 5V电源 |
| 2 | TX | I\O | RS232TX |
| 3 | RX | I\O | RS232RX |
| 4 | GND | GND | GND |

XRTTY2

| 脚位 | 定义 | 属性 | 描述 |
|----|-----|-----|---------|
| 1 | VCC | 电源 | 5V电源 |
| 2 | TX | I\O | RS232TX |
| 3 | RX | I\O | RS232RX |
| 4 | GND | GND | GND |

XRTTY3

| 脚位 | 定义 | 属性 | 描述 |
|----|-----|-----|--------------------------|
| 1 | VCC | 电源 | 5V电源 |
| 2 | TX | I\O | UARTTX (默认) 485B (可选) |
| 3 | RX | I\O | UARTRX (默认) 485A (可选) |
| 4 | GND | GND | GND |

| UART4 | <table border="1"> <thead> <tr> <th>脚位</th> <th>定义</th> <th>属性</th> <th>描述</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>VCC</td> <td>电源</td> <td>5V电源</td> </tr> <tr> <td>2</td> <td>TX</td> <td>I\O</td> <td>UART TX</td> </tr> <tr> <td>3</td> <td>RX</td> <td>I\O</td> <td>UART RX</td> </tr> <tr> <td>4</td> <td>GND</td> <td>GND</td> <td>GND</td> </tr> </tbody> </table> | 脚位 | 定义 | 属性 | 描述 | 1 | VCC | 电源 | 5V电源 | 2 | TX | I\O | UART TX | 3 | RX | I\O | UART RX | 4 | GND | GND | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|----|----|---|-------|-----|------|---|-------|-----|---------|---|---------|-----|---------|---|--------|-----|------|---|--------|-----|---------|---|--------|-----|---------|---|--------|-----|---------|---|--------|-----|---------|---|--------|-----|---------|----|--------|-----|---------|----|--------|-----|---------|----|--------|-----|---------|----|-----|-----|-----|----|-----|-----|-----|----|----------|-----|----------|----|----------|-----|----------|----|-----|----|-----|----|-----|----|-----|----|---------|-----|--------|----|-----|-----|-----|
| 脚位 | 定义 | 属性 | 描述 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | VCC | 电源 | 5V电源 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | TX | I\O | UART TX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | RX | I\O | UART RX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | GND | GND | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BL_1 (LVDS背景光接口) | <table border="1"> <thead> <tr> <th>脚位</th> <th>定义</th> <th>属性</th> <th>描述</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>GND</td> <td>GND</td> <td>GND</td> </tr> <tr> <td>2</td> <td>GND</td> <td>GND</td> <td>GND</td> </tr> <tr> <td>3</td> <td>LCD-PWM</td> <td>输出</td> <td>背光调节</td> </tr> <tr> <td>4</td> <td>LCD-EN</td> <td>输出</td> <td>背光使能</td> </tr> <tr> <td>5</td> <td>12V</td> <td>电源</td> <td>12V输出</td> </tr> <tr> <td>6</td> <td>12V</td> <td>电源</td> <td>12V输出</td> </tr> </tbody> </table> | 脚位 | 定义 | 属性 | 描述 | 1 | GND | GND | GND | 2 | GND | GND | GND | 3 | LCD-PWM | 输出 | 背光调节 | 4 | LCD-EN | 输出 | 背光使能 | 5 | 12V | 电源 | 12V输出 | 6 | 12V | 电源 | 12V输出 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 脚位 | 定义 | 属性 | 描述 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | GND | GND | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | GND | GND | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | LCD-PWM | 输出 | 背光调节 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | LCD-EN | 输出 | 背光使能 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 12V | 电源 | 12V输出 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 12V | 电源 | 12V输出 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BL_2 (EDP背景光接口) | <table border="1"> <thead> <tr> <th>脚位</th> <th>定义</th> <th>属性</th> <th>描述</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>GND</td> <td>GND</td> <td>GND</td> </tr> <tr> <td>2</td> <td>GND</td> <td>GND</td> <td>GND</td> </tr> <tr> <td>3</td> <td>LCD-PWM</td> <td>输出</td> <td>背光调节</td> </tr> <tr> <td>4</td> <td>LCD-EN</td> <td>输出</td> <td>背光使能</td> </tr> <tr> <td>5</td> <td>12V</td> <td>电源</td> <td>12V输出</td> </tr> <tr> <td>6</td> <td>12V</td> <td>电源</td> <td>12V输出</td> </tr> </tbody> </table> | 脚位 | 定义 | 属性 | 描述 | 1 | GND | GND | GND | 2 | GND | GND | GND | 3 | LCD-PWM | 输出 | 背光调节 | 4 | LCD-EN | 输出 | 背光使能 | 5 | 12V | 电源 | 12V输出 | 6 | 12V | 电源 | 12V输出 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 脚位 | 定义 | 属性 | 描述 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | GND | GND | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | GND | GND | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | LCD-PWM | 输出 | 背光调节 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | LCD-EN | 输出 | 背光使能 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 12V | 电源 | 12V输出 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 12V | 电源 | 12V输出 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EDP (EDP背景光接口) | <table border="1"> <thead> <tr> <th>脚位</th> <th>定义</th> <th>属性</th> <th>描述</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>POWER</td> <td>电源</td> <td>3.3V</td> </tr> <tr> <td>2</td> <td>POWER</td> <td>电源</td> <td>3.3V</td> </tr> <tr> <td>3</td> <td>GND</td> <td>GND</td> <td>GND</td> </tr> <tr> <td>4</td> <td>GND</td> <td>GND</td> <td>GND</td> </tr> <tr> <td>5</td> <td>D1TX0-</td> <td>I/O</td> <td>EDP屏数据线</td> </tr> <tr> <td>6</td> <td>D1TX0+</td> <td>I/O</td> <td>EDP屏数据线</td> </tr> <tr> <td>7</td> <td>D1TX1-</td> <td>I/O</td> <td>EDP屏数据线</td> </tr> <tr> <td>8</td> <td>D1TX1+</td> <td>I/O</td> <td>EDP屏数据线</td> </tr> <tr> <td>9</td> <td>D1TX2-</td> <td>I/O</td> <td>EDP屏数据线</td> </tr> <tr> <td>10</td> <td>D1TX2+</td> <td>I/O</td> <td>EDP屏数据线</td> </tr> <tr> <td>11</td> <td>D1TX3-</td> <td>I/O</td> <td>EDP屏数据线</td> </tr> <tr> <td>12</td> <td>D1TX3+</td> <td>I/O</td> <td>EDP屏数据线</td> </tr> <tr> <td>13</td> <td>GND</td> <td>GND</td> <td>GND</td> </tr> <tr> <td>14</td> <td>GND</td> <td>GND</td> <td>GND</td> </tr> <tr> <td>15</td> <td>EDP_AUXN</td> <td>I/O</td> <td>EDP辅助信号线</td> </tr> <tr> <td>16</td> <td>EDP_AUXP</td> <td>I/O</td> <td>EDP辅助信号线</td> </tr> <tr> <td>17</td> <td>GND</td> <td>输出</td> <td>GND</td> </tr> <tr> <td>18</td> <td>GND</td> <td>输出</td> <td>GND</td> </tr> <tr> <td>19</td> <td>EDP-HPD</td> <td>I/O</td> <td>EDP侦测脚</td> </tr> <tr> <td>20</td> <td>GND</td> <td>GND</td> <td>GND</td> </tr> </tbody> </table> | 脚位 | 定义 | 属性 | 描述 | 1 | POWER | 电源 | 3.3V | 2 | POWER | 电源 | 3.3V | 3 | GND | GND | GND | 4 | GND | GND | GND | 5 | D1TX0- | I/O | EDP屏数据线 | 6 | D1TX0+ | I/O | EDP屏数据线 | 7 | D1TX1- | I/O | EDP屏数据线 | 8 | D1TX1+ | I/O | EDP屏数据线 | 9 | D1TX2- | I/O | EDP屏数据线 | 10 | D1TX2+ | I/O | EDP屏数据线 | 11 | D1TX3- | I/O | EDP屏数据线 | 12 | D1TX3+ | I/O | EDP屏数据线 | 13 | GND | GND | GND | 14 | GND | GND | GND | 15 | EDP_AUXN | I/O | EDP辅助信号线 | 16 | EDP_AUXP | I/O | EDP辅助信号线 | 17 | GND | 输出 | GND | 18 | GND | 输出 | GND | 19 | EDP-HPD | I/O | EDP侦测脚 | 20 | GND | GND | GND |
| 脚位 | 定义 | 属性 | 描述 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | POWER | 电源 | 3.3V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | POWER | 电源 | 3.3V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | GND | GND | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | GND | GND | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | D1TX0- | I/O | EDP屏数据线 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | D1TX0+ | I/O | EDP屏数据线 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | D1TX1- | I/O | EDP屏数据线 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | D1TX1+ | I/O | EDP屏数据线 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | D1TX2- | I/O | EDP屏数据线 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | D1TX2+ | I/O | EDP屏数据线 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | D1TX3- | I/O | EDP屏数据线 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | D1TX3+ | I/O | EDP屏数据线 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | GND | GND | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | GND | GND | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | EDP_AUXN | I/O | EDP辅助信号线 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | EDP_AUXP | I/O | EDP辅助信号线 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | GND | 输出 | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | GND | 输出 | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | EDP-HPD | I/O | EDP侦测脚 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | GND | GND | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

LCDVCC SEL
(LVDS屏电压选择)

| 脚位 | 定义 | 属性 | 描述 |
|----|---------|----|-------------|
| 1 | +12V | 电源 | 跳此处屏电压+12V |
| 2 | VDD_LCD | 电源 | |
| 3 | +5V | 电源 | 跳此处屏电压+5V |
| 4 | VDD_LCD | 电源 | |
| 5 | +3.3V | 电源 | 跳此处屏电压+3.3V |
| 6 | VDD_LCD | 电源 | |

LVDS接口
(LVDS JACK)

| 脚位 | 定义 | 属性 | 描述 |
|----|--------|-----|---------------|
| 1 | POWER | 电源 | 3V/5V/12V电源可配 |
| 2 | POWER | 电源 | |
| 3 | POWER | 电源 | |
| 4 | GND | GND | GND |
| 5 | GND | GND | GND |
| 6 | GND | GND | GND |
| 7 | D1TX0- | 输出 | 数据 |
| 8 | D1TX0+ | 输出 | 数据 |
| 9 | D1TX1- | 输出 | 数据 |
| 10 | D1TX1+ | 输出 | 数据 |
| 11 | D1TX2- | 输出 | 数据 |
| 12 | D1TX2+ | 输出 | 数据 |
| 13 | GND | GND | GND |
| 14 | GND | GND | GND |
| 15 | D1CLKN | 输出 | 时钟 |
| 16 | D1CLKP | 输出 | 时钟 |
| 17 | D1TX3- | 输出 | 数据 |
| 18 | D1TX3+ | 输出 | 数据 |
| 19 | NC | NC | 不连接 |
| 20 | NC | NC | 不连接 |

MIC
(麦克风接口)

| 脚位 | 定义 | 属性 | 描述 |
|----|------|----|---------|
| 1 | MICP | 输入 | MIC正极输入 |
| 2 | MICN | 输入 | MIC负极输入 |

| | | | | |
|---------------------|----|----|----|--------|
| SPEAKER (喇叭输出接口) | 脚位 | 定义 | 属性 | 描述 |
| | 1 | L+ | 输出 | 喇叭左声道正 |
| | 2 | L- | 输出 | 喇叭左声道负 |
| | 3 | R- | 输出 | 喇叭右声道负 |
| | 4 | R+ | 输出 | 喇叭右声道正 |

*其他未尽事项请详询销售人员