

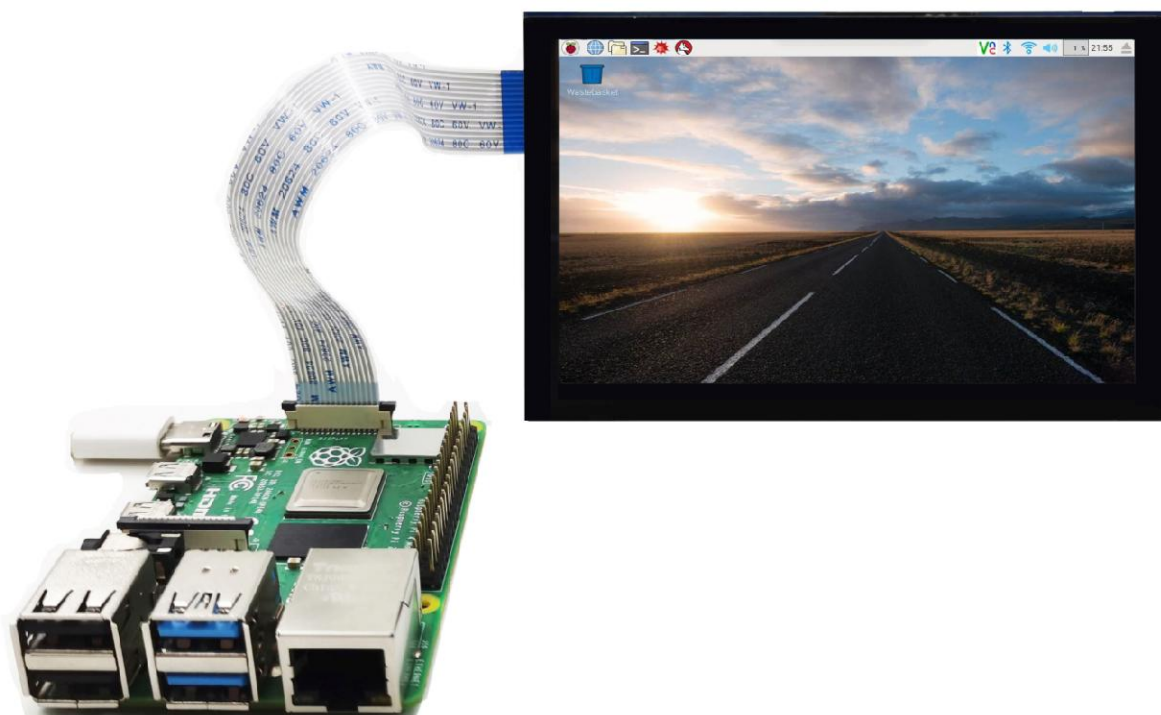


# 深圳市卡迪显示科技有限公司

SHENZHEN KADI DISPLAY

## 5.0- Inch DSI MIPI

### KDR5003-02





## 1. General Specifications

| Feature         |                      | Spec                          |
|-----------------|----------------------|-------------------------------|
| Characteristics | Size                 | 5.0 inch                      |
|                 | Resolution           | 800(horizontal)*480(Vertical) |
|                 | Interface            | DSI MIPI(For Raspberry Pi)    |
|                 | Connect type         | Connector                     |
|                 | Display Colors       | 16.7M                         |
|                 | Technology type      | a-Si                          |
|                 | Pixel pitch (mm)     | 0.135*0.135                   |
|                 | Display Mode         | Normally Black                |
|                 | Technology           | IPS                           |
|                 | CTP Driver IC        | FT5446DQS-P03                 |
|                 | Viewing Direction    | ALL                           |
| Mechanical      | LCM (W x H x D) (mm) | 120.7*75.8*9.15               |
|                 | Active Area(mm)      | 109 x 65.80                   |
|                 | With /Without TSP    | With CTP                      |
|                 | Weight (g)           | TBD                           |
|                 | LED Numbers          | 14 LEDs                       |

## 2. Electrical Characteristics

| Item                           | Symbol | MIN | Typ   | MAX | Unit  |
|--------------------------------|--------|-----|-------|-----|-------|
| Supply Voltage                 | VDD    | 3.0 | 3.3   | 3.6 | V     |
| Direct Current(With Backlight) | Id     | -   | 140   | -   | mA    |
| Operating Temperature          | TOPR   | -20 | -     | 70  | ℃     |
| Storage Temperature            | TSTG   | -30 | -     | 80  | ℃     |
| Life time                      |        |     | 50000 |     | Hrs   |
| Brightnes                      | YL     | -   | 1000  | -   | Cd/m2 |



## 3. PIN-MAP

### 15PIN/1.0 CONNETOR

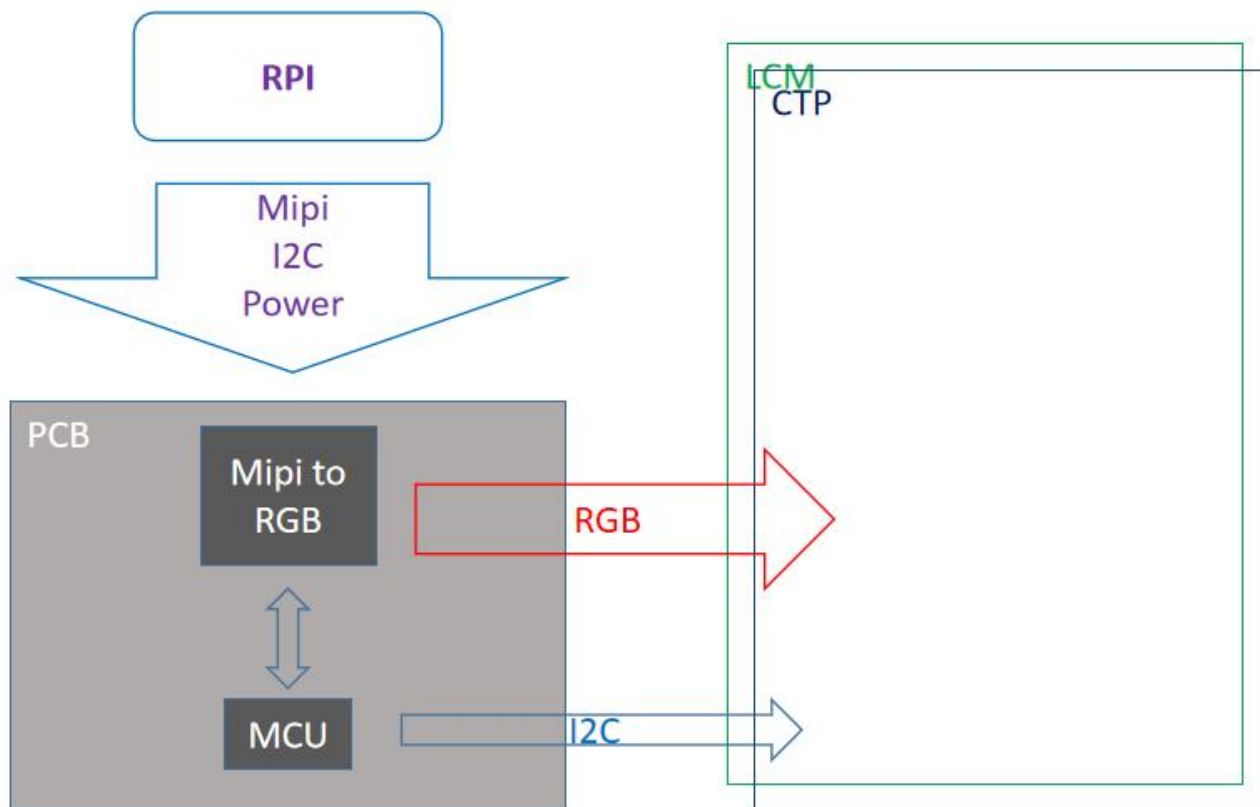
| No. | Symbol | Description                   |
|-----|--------|-------------------------------|
| 1   | GND    | Ground                        |
| 2   | MP_DN1 | MIPI Negative data1 signal(-) |
| 3   | MP_DP1 | MIPI Positive data1 signal(+) |
| 4   | GND    | Ground                        |
| 5   | MP_DCN | MIPI Negative clock signal(-) |
| 6   | MP_DCP | MIPI Positive clock signal(+) |
| 7   | GND    | Ground                        |
| 8   | MP_DN0 | MIPI Negative data0 signal(-) |
| 9   | MP_DP0 | MIPI Positive data0 signal(+) |
| 10  | GND    | Ground                        |
| 11  | SCL0   | I2C0 clock signal             |
| 12  | SDA0   | I2C0 data signal              |
| 13  | GND    | Ground                        |
| 14  | DC     | 3V3                           |
| 15  | DC     | 3V3                           |

### 3PIN/1.25 CONNETOR

| No. | Symbol | Description                                                 |
|-----|--------|-------------------------------------------------------------|
| 1   | VCC5V  | Backlight Power Supply 5V                                   |
| 2   | PWM    | Brightness adjust(100%PWM duty 100% on;0%PWM duty darkness) |
| 3   | GND    | Ground                                                      |



## 4. Block Diagram





### 5.Drawing

