7inch Capacitive Touch LCD (F)

A painting of a city

Description automatically generated

**7 inch 1024\*600 Multicolor Graphic LCD, with capacitive touch screen and stand-alone touch controller**

**Key Parameters**

|  |  |
| --- | --- |
| **LCD Type** | TFT |
| **Interface** | RGB |
| **Touch Controller** | GT911 |
| **Touch Panel Type** | Capacitive (5 multi-touch) |
| **Backlight** | LED |
| **Display Size (mm)** | 154.21 (W) × 85.92 (H) |
| **Dot Pitch (mm)** | 0.0502 (W) × 0.1432 (H) |
| **Resolution** | 1024 x 600 (Pixel) |
| **Operating Voltage** | 3.0V~3.6V |

**RGB Interface Definition**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PIN NO.** | **SYMBOL** | **DESCRIPTION** | **Type** | **FUNCTION** |
| 1 | BL\_VDD | Power positive | Power | Backlight power, connects to 5V power supply |
| 2 | BL\_VDD |
| 3 | GND | Ground | GND |
| 4 | VDD | Power positive | Connects to 3.3V power supply |
| 5 | R0 | Data pin | Input | Red data |
| 6 | R1 |
| 7 | R2 |
| 8 | R3 |
| 9 | R4 |
| 10 | R5 |
| 11 | R6 |
| 12 | R7 |
| 13 | G0 | Data pin | Input | Green data |
| 14 | G1 |
| 15 | G2 |
| 16 | G3 |
| 17 | G4 |
| 18 | G5 |
| 19 | G6 |
| 20 | G7 |
| 21 | B0 | Data pin | Input | Blue data |
| 22 | B1 |
| 23 | B2 |
| 24 | B3 |
| 25 | B4 |
| 26 | B5 |
| 27 | B6 |
| 28 | B7 |
| 29 | GND | Ground | Power | GND |
| 30 | DCLK | LCD clock | Input | LCD clock signal |
| 31 | DISP | Backlight control enable | Input | Enabled/Disable backlight control |
| 32 | HSYNC | Horizontal Synchronization | Input | Horizontal Synchronization signal input |
| 33 | VSYNC | Vertical Synchronization | Input | Vertical Synchronization signal input |
| 34 | DE | Control mode selection | Input | DE = 0 : SYNC mode DE = 1 : DE mode |
| 35 | PWM | Backlight brightness adjustment | Input | PWM signal for adjusting backlight |
| 36 | GND | Ground | Power | GND |
| 37 | I2C\_SDA | I2C data | Input/Output | I2C data pin, read/write data |
| 38 | I2C\_SCL | I2C clock | Input | I2C clock pin |
| 39 | CAP\_RST | Reset | Input | Reset the TP controller |
| 40 | CAP\_INT | Interrupt | Output | External touch interrupt |

**External Dimension**

