

LCDWIKI CR2020-MI4185 5.0 Inch RGB Display Module User Manual

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Product Description

The product is a 5.0-inch RGB interface TFT LCD display module. The module supports the screen switching of 800×480, and supports up to 24bit rgb888 16.7M color display. There is no controller inside the module, so external controller is needed. For example, ssd1963 driver IC can be used as MCU LCD, and MCU with RGB controller (such as stm32f429, stm32f767, stm32h743, etc.) can be used as RGB LCD. The module also supports the switching function of capacitive touch screen and resistance touch screen

Product Features

- 5.0-inch color screen, support 24BIT RGB 16.7M color display, display rich colors
- Support 800×480, the display effect is very clear
- Support 24 bit RGB parallel bus transmission
- Compatible with RGB interface connection of punctual atomic development board and wildfire development board
- It supports the switching between capacitive touch screen and resistance touch screen, and the capacitive touch screen can support up to 5 touch points
- Provides a rich sample program for STM32 platforms
- Military-grade process standards, long-term stable work
- Provide underlying driver technical support

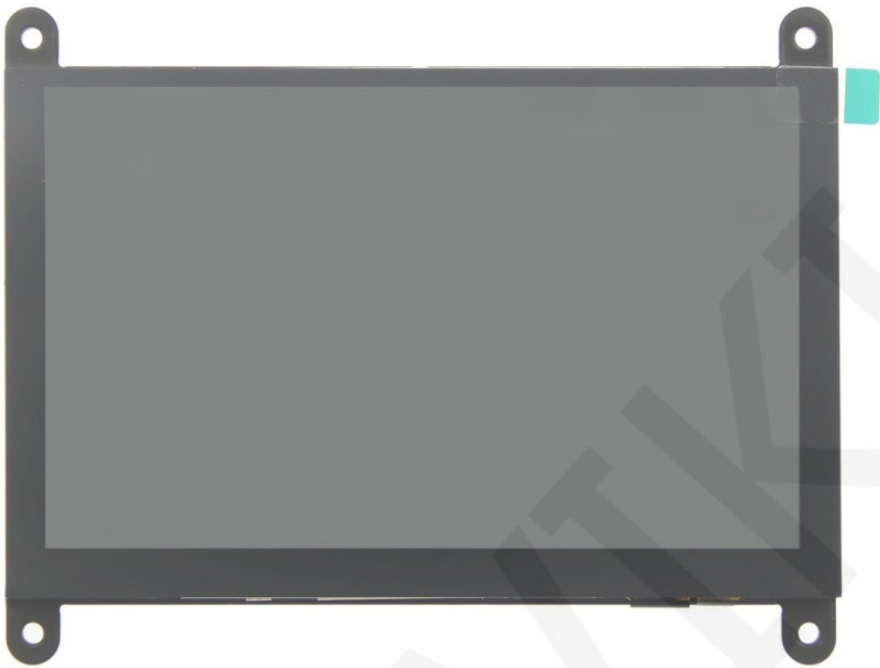
Product Parameters

Name	Description
Display Color	RGB888 16.7M (compatible with rgb5665k) color
SKU	MRG5101(no touch), MRG5111(have touch)
Screen Size	5.0(inch)
Type	TFT
Driver IC	None
Resolution	800'480 (Pixel)
Module Interface	24Bit RGB parallel interface
Touch Screen Type	Capacitive or Resistive touch screen
Touch IC	FT5426(Capacitive touch), XPT2046(Resistive touch)
Active Area	108.00×64.80(mm)
Module PCB Size	121.11×95.24(mm)
Operating Temperature	-10`C-60t
Storage Temperature	-20 C-70 ‘(..’
Input Voltage	5V
10 Voltage	3.3V
Power Consumption	64mA(The backlight is off), 127mA(The backlight is the brightest)
Product Weight(Net weight)	111g

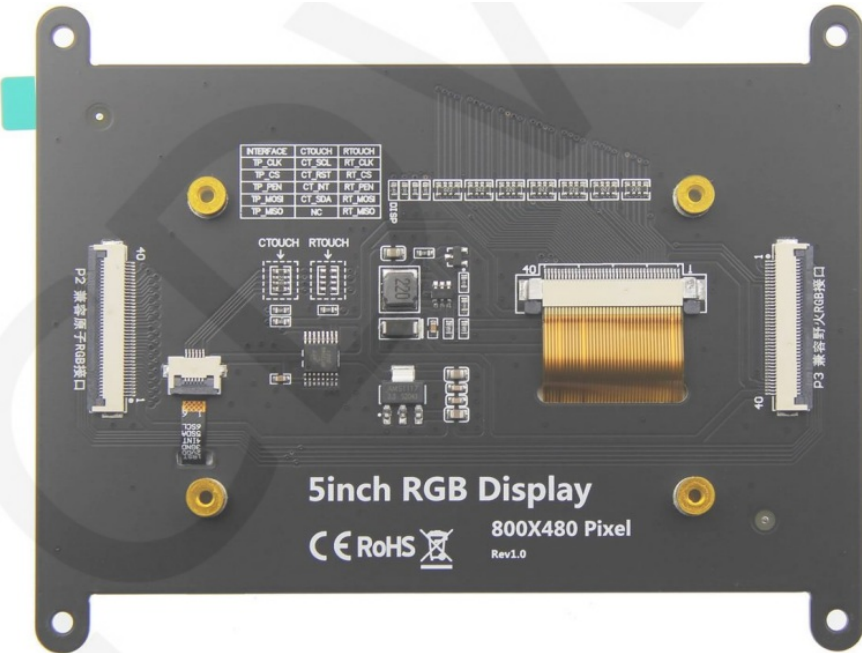
Interface Description

The module is compatible with the RGB interface of punctual atomic development board and wildfire development board, and is connected with the development board through 40 pin flexible cable. The appearance is shown in Picture 1 and Picture 2.

Picture1. Front view of module

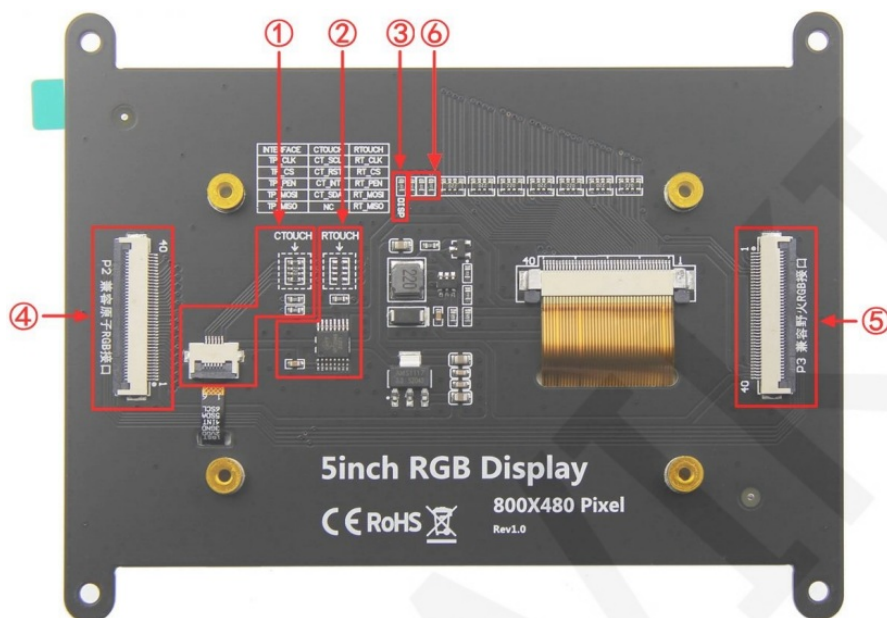


Picture2. Back view of module



The module interface and selection circuit are shown in Picture 3:

Picture3. The module interface and selection circuit



Each identification circuit in Picture 3 is described as follows:

1. Capacitive touch screen circuit
2. Resistance touch screen circuit
3. Disp resistance
4. P2 interface (compatible with atomic RGB interface)
5. P3 interface (compatible with wildfire RGB interface)
6. Module ID defines resistance (only for punctual atomic program)
 1. The module supports switching between capacitive touch screen and resistive touch screen. When using capacitive touch screen, please weld Capacitive touch screen circuit; when using resistance touch screen, please weld Resistance touch screen circuit. If you often need to switch the touch screen, the simplest way is to solder other circuits and switch only the drain in the dotted line box

Documents / Resources

	LCDWIKI CR2020-MI4185 5.0 Inch RGB Display Module [pdf] User Manual CR2020-MI4185, CR2020-MI4185 5.0 Inch RGB Display Module, 5.0 Inch RGB Display Module, RGB Display Module, Display Module, Module
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References

- [User Manual](#)