



深圳市晶彩智能有限公司
Shenzhen Jingcai Intelligent Co., Ltd

1.8 inch ESP32-S3 Module

JC3636K518C_I_W



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Product description

This LCD module uses the ESP32-S3R8 chip as the main controller, which is a dual-core MCU that integrates WI-FI and Bluetooth BLE 5.0. The main frequency can reach 240MHz, and the chip integrates 520KB SRAM, 8MB PSRAM, and 448KB ROM, along with an additional 16MB Flash. The display resolution is 360x360 pixels and features capacitive touch. The module includes an LCD display, backlight control circuit, touch screen control circuit, microphone circuit, speaker driver circuit, and TF card interface. This module supports secondary development in Arduino IDE, ESP IDE, Micropython, and GUITION.

Features

- Computer secondary screen function (AIDA64), built-in 18 styles
- Pickup spectrum function
- Bluetooth music playback function
- Electronic photo frame function, you can add your own photos
- MJPEG playback function, you can add MJPEG files by yourself
- Text reading function, you can add txt novel reading
- Theme clock display function, built-in 3 kinds of anime fan-themed clocks
- It comes with a motor and has a vibration function
- Computer Bluetooth volume control
- Subsequent product function upgrades



Product parameters

NAME	Describe	Remark
Display colors	RGB 262K color	
SKU	JC3636K518C_I_W	
Size	1.8 inch	
Type	TFT	
Driver chip	ST77916	
Resolution	360*360(Pixel)	
Effective display area	45.68* 45.68(mm)	
Module size	66*66*22(mm)	
View	>60°	
Touch	CST816 Capacitive touch	
Working temperature	-20℃~70℃	
Storage temperature	-30℃~80℃	
Working voltage	5V	
Power consumption	About 1.3W	
Product weight	About 160g	



Instructions

Distribution Network

The AIDA64 secondary screen of this device needs to be configured for network use.

After powering on, the device will automatically turn on an AP named My-Ap with a 12345678 password. Connect to this AP with your mobile phone, wait for a while and the network configuration page will pop up, automatically search for the hotspot in the current environment, select your hotspot and enter the password, you can complete the network configuration, the screen will get an IP address after the network configuration is completed, and you can view this IP on the WIFI page in the settings.

Note: Once some mobile phones find that the hotspot cannot connect to the Internet, they will automatically disconnect the hotspot to use the 5G network, and at this time you need to connect to the AP again. If the network configuration page does not pop up after connecting to the AP, enter 192.168.4.1 on the mobile browser.

Basic operations

1、 The main menu is displayed

In the functions of secondary screen, pickup, electronic photo frame, MJPEG playback, and clock, quickly swipe up from bottom in the touch area to call up the main menu, and press the "<" icon to return to the main menu for text reading. On the settings page, tap the < icon to bring up the main menu.

Click on the main menu to enter the various function pages

2、 Operation of each function

Secondary screen: Swipe left and right in the screen area to switch between different secondary screen styles.

Theme Clock: The Pomodoro clock style used, and then three styles can be modified in the settings; Rotate the knob to use it as an alarm clock, tap the screen to start the countdown.

MJPEG Player: Swipe left and right in the screen area to toggle between playing the next or previous file.

Photo album: Swipe left and right in the screen area to toggle between playing the next or previous file.

Bluetooth music player: Connect to the Bluetooth TAIJI_KNOB_AUDIO, and use any music playback software to play it after successful pairing. When transferring the Bluetooth cover and lyrics to the screen, they should be played in the corresponding software. Generally, there is a Bluetooth switch for the cover and lyrics in the software settings, and the corresponding switch should be turned on.

Computer volume control: Connect to the Bluetooth TAIJI_KNOB_HID, and after successful pairing, you can adjust the computer volume by turning the knobs on the four pages of secondary screen, mjpeg playback, photo album and spectrum.



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Pickup spectrum: When playing music and external sounds, the audio bar changes with the sound.

Text reading: Rotate the knob or slide to switch pages.

settings: All settings are performed on the settings page, and in order to extend the life of the flash, changes made on the settings page will be saved to the flash when you exit the settings page.

Web Control

After the network is successfully connected, enter the settings page, click WiFi, enter the WiFi page, slide to the bottom to find the IP address that will see the current connection, and enter the IP of this device in the computer browser to enter the web control page.

Detailed instructions for each function

1. Computer secondary screen function (AIDA64)

- 1). Find an activated AIDA64 client (by yourself).
- 2). Select [File] [Settings] [LCD] and select Remote Sensor.
- 3). Port 80, fill in the resolution of 1280×800, and check [Enable RemoteSensor LCD support].
- 4). Click on the LCD project, click on the import in the upper right corner, and then select the aida_remote_1.85.rslcd file provided by our file.
- 5). After importing, you need to make some settings, because everyone's CPU, GPU, motherboard, hard disk, network card, etc. are different, please set them one by one, 8 parameters: CPU usage CPU freq CPU temp CPU fan GPU usage GPU freq GPU temp GPU fan .
- 6). Note that the text in the "Show Label" must not be modified, and the "Show unit" must be filled with "^" (without quotation marks), otherwise the device will not be able to detect it
- 7). Click OK when everything is done and minimize AIDA64. You can make it start automatically when you turn it on in the settings. (Settings, General, Running AIDA64 on Windows Startup).
- 8). Access the IP address of the screen through the web page, set the IP address of your computer (that is, the IP address of the computer running AIDA64) in the "host address of the secondary screen" at the bottom, and then save it.

If the local port 80 is occupied, you need to add a colon to the end and add a custom port.

For example

192.168.0.100:80 uses the host address of 192.168.0.100, default port 80

192.168.0.100:9223 uses the host address of 192.168.0.100 and uses port 9223



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9).The firewall allows AIDA64 to access the network, or manually allows TCP80 port (or your custom port), which is important!

<https://jingyan.baidu.com/article/af9f5a2d2ea83543140a4584.html>

After the setting is completed, switch the screen to the AIDA64 function window to display the computer status information.

2. Pickup spectrum

Gain correction can be performed in the web page, with a total of 4 levels, adjusted to the appropriate level, so that the spectrum is barely visible when it is quiet.

3. Bluetooth music player

Connect to the Bluetooth TAIJI_KNOB_AUDIO, and use any music playback software to play it after successful pairing.

4. Photo album

Put the 360 × 360 JPEG file into the pic directory of the TF card.

5. MJPEG Player

Convert the video you want to play into a 360*360, FPS 25, and video quality 7 MJPEG file through the mjpeg conversion tool, and copy the file to the mjpeg directory of the TF card。

6. Theme Clock

Enter the clock screen, rotate the knob to enter the timer mode, tap the screen or wait for a period of time to start the countdown, and the countdown will vibrate when the countdown ends. Time display, In the settings page menu, find the time zone under the language menu and set the corresponding regional time zone. For example, in China, set the time zone to +8. After setting the time zone and successfully connecting to the internet, the time will be automatically synchronized.

7. Text reading

Open the txt file in Notepad, check the file encoding at the bottom right, if it is not UTF-8 encoding, please modify it to UTF-8 encoding and then put it in the txt folder。

8. Computer volume control

Turn on Bluetooth on the computer, click Add Device to pair with the TAIJI_KNOB_HID, and after the pairing is completed, you can adjust the computer volume on the sub-screen page, MJPEG player page, photo album page and spectrum page by rotating the knob。



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Interface Description





Hand-measured dimensions with 0.2-0.5 cm tolerance.