

ESP32-CAM

Produktkode: 388aa

Tilgjengelighet: Opp til 1 mnd leveringstid

Custom Field 5 (Location): N 15

Pris: kr. 150,00

Short Description

ESP32-CAM WiFi Bluetooth Development Board OV2640 Camera Module For Arduino GW

Beskrivelse

Description:

The ESP32-CAM has a very competitive small-size camera module that can operate independently as a minimum system, measuring only 27*40.5*4.5mm, with deep sleep current and a minimum of 6mA.

ESP-32CAM can be widely used in various IoT applications. It is suitable for home smart devices, industrial wireless control, wireless monitoring, QR wireless identification, wireless positioning system signals and other IoT applications. It is an ideal solution for IoT applications.

ESP-32CAM is packaged in DIP and can be directly plugged into the backplane for quick production. It provides customers with a highly reliable connection method and is convenient for use in various IoT hardware terminals.

Features:

BU1508+BU1509

Low-power dual-core 32-bit CPU for application processors

Main frequency up to 240MHz, computing power up to 600 DMIPS

Built-in 520 KB SRAM, external 4M PSRAM

Supports interfaces such as UART/SPI/I2C/PWM/ADC/DAC

Support OV2640 and OV7670 cameras, built-in flash

Support image WiFi upload

Support TF card

Support multiple sleep modes

Embedded Lwip and FreeRTOS
Support STA/AP/STA+AP working mode
Support Smart Config/AirKiss one-click distribution network
Support secondary development

Note: This product contains the OV2640 Camera Module. If you need to use the OV7670 camera, please purchase it separately.

Package Included:
1 x ESP32-CAM Module
1 x Camera Module OV2640

Ekstern antenne

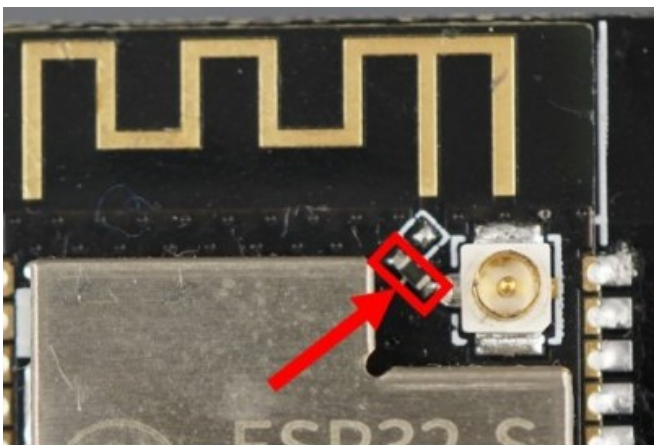
<https://robotzero.one/esp-who-recognition-with-names/>

The ESP32-CAM has the option to use either the built-in PCB antenna or an external antenna as the one shown in the following figure.

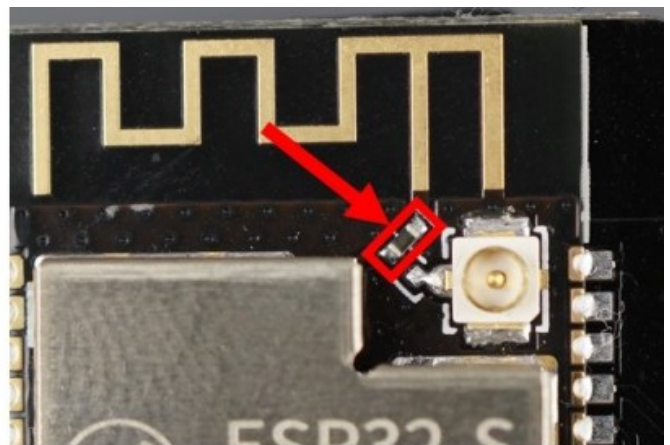


Next to the IPEX connector there are three little white squares laid out like a “<” with the middle position being common. There is a resistor selecting the desired antenna. Here’s the two configurations:

- To use the IPEX connector with an **external antenna**, the resistor must be on the bottom position, like this “\”. See illustration below;
- To use the PCB antenna (**on-board antenna**), the resistor must be on the top position, like this “/”.



External Antenna



On-board Antenna

Take a look at your board to see if it is set to use the on-board antenna or the IPEX connector. Using the on-board antenna works well if you are close to your router. We recommend using the IPEX connector with an external antenna for better results.

Projects with video streaming crash frequently when you don’t use an external antenna due to poor connectivity. So, make sure you [get one](#) to have your projects working reliably.

To enable or disable the on-board antenna, you just need to unsolder that resistor and

solder it in the desired configuration. You can also drop some solder to connect those points (you don't necessarily need to add the resistor as long as the pads are connected).

Note: You can't use the two antennas at the same time, so you can only have one connection for the antenna.

Kilde: <https://makeradvisor.com/tools/esp32-cam-external-antenna/>

Teste signalstyrke

Testing the ESP32-CAM Wi-Fi Signal Strength

You can [upload the following code to your ESP32-CAM boards](#) to check the signal strength of the connection to the router (RSSI – Received Signal Strength Indication).

 **MEDIAVINE**

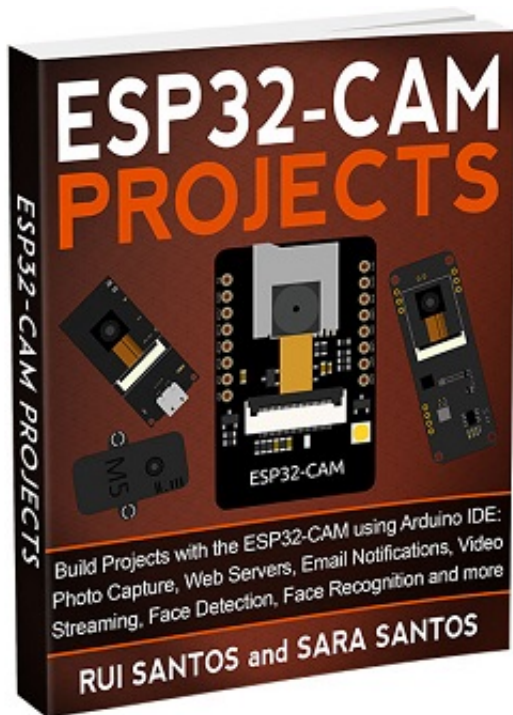
```
#include "WiFi.h"const char* ssid      = "REPLACE_WITH_YOUR_S
SID";const char* password = "REPLACE_WITH_YOUR_PASSWORD";voi
d setup(){ Serial.begin(115200); WiFi.begin(ssid, password
); while (WiFi.status() != WL_CONNECTED) { delay(500);
Serial.print("."); } Serial.println(""); Serial.println
("WiFi connected."); delay(100);}void loop(){ Serial.print
("RSSI: "); Serial.println(WiFi.RSSI()); delay(2000);}
```

When testing the signal strength, the closer the value to 0, the stronger the signal is.

In our case, with a distance of approximately 5 meters (16.4 feet) to the router with

obstacles in between (walls), we got the following results:

- ESP32-CAM *without antenna*: RSSI of approximately -60
- ESP32-CAM *with antenna*: RSSI of approximately -36



Ansiktsgjenkjenning

<https://randomnerdtutorials.com/esp32-cam-video-streaming-face-recognition-arduino-ide/>

Product Gallery

