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[Development Boards](#) / [ESP32&ESP8266](#) / FireBeetle ESP32 IoT Microcontroller (Supports Wi-Fi & Bluetooth)

FireBeetle ESP32 IoT Microcontroller (Supports Wi-Fi & Bluetooth)

SKU:DFR0478

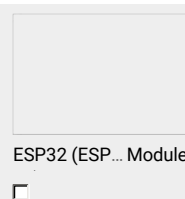
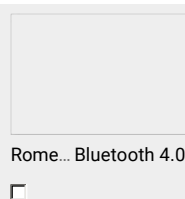
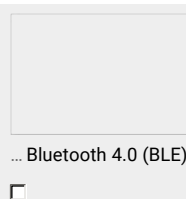
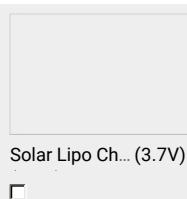
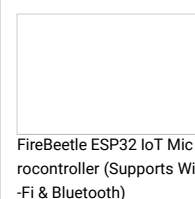
Brand:DFRobot

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* Model: **ESP32** ESP8266 BLE4.1Quantity: - +**ADD TO CART****Frequently Bought Together**You have chosen:0
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INTRODUCTION

DFRobot FireBeetle series is the low-power consumption micro-controller intentionally designed for [Internet of Things \(IoT\) projects](#). FireBeetle Board - [ESP32](#) integrates a Dual-Core ESP-WROOM-32 module, which supports MCU and Wi-Fi & Bluetooth dual-mode communication. The electric current is just 10μA in the deep-sleep mode. The main controller supports two power supply methods: USB and 3.7V external lithium battery. And both USB and external DC can charge the Lipo battery directly.

[Check IoT Microcontroller Selection Guide For More Information](#)

Name	Wido	Beetle ESP32	FireBeetle ESP8266	FireBeetle ESP32
SKU	DFR0321	DFR0575	DFR0489	DFR0478
Microcontroller	CC3000	ESP32	ESP8266	ESP32
Power supply interface	USB or DC2.1	USB	USB or 3.7V Lipo	USB or 3.7V Lipo
USB Powered or External (V)	7 - 12	3.5 - 6.5	3.3 - 5.0	3.3 - 5.0
Operating Voltage (V)	5V	3.3V	3.3V	3.3V
CPU Frequency (MHz)	16	240	160	240
Flash(M)	-	16	16	16
SRAM(KB)	-	520	50	520
Analog pins	6	4	1	5
Digital pins	14	4	10	10
Wi-Fi protocol	802.11b/g	802.11b/g/n	802.11b/g/n	802.11b/g/n

Downloaded from [Arrow.com](#)

Frequency range	2.4 GHz	2.4 - 2.5 GHz	2.4 - 2.5 GHz	2.4 - 2.5 GHz
UART	1	1	1	1
I2C	1	1	1	1
I2S	1	1	1	1
SPI	1	1	1	1
Compatible IDE	Arduino IDE 1.6+	Arduino IDE 1.6+	Arduino IDE 1.6+	Arduino IDE 1.6+
Download Mode	Micro USB	Micro USB	Micro USB	Micro USB
Arduino UNO Compatible	√	×	×	×
Lipo Charger Support	×	√	√	√
Dimension(mm)	75*54	35*34	58*29	58*29
Weight (g)	30 g	12 g	24 g	24 g
Price(\$)				
Key Features	On board 2.4G PCB Antenna and SD card slot.	Integrate a Dual-Core ESP-WROOM-32 module. Support MCU and Wi-Fi & Bluetooth dual-mode communication. V shaped gilded I/O interface, can be sewn on clothes directly.	Arduino, RTOS, microPython Programming Support. Built-in 32-bit Tensilica L106 MCU and 10-bit ADC.	Mobile BLE APP Connection Support. Two way H-bridged Motor Driver with 2A maximum current and wireless socket.

You may also check [Bluetooth microcontroller selection guide](#) for more information.

FireBeetle ESP32 IOT Microcontroller Size Comparsion

FireBeetle Board-ESP32 has made a special hardware design for Arduino IDE. You can make a download without switching boot-mode manually. It supports [Arduino](#), IDF (linux), micropython etc. Moreover, FireBeetle made a pin mapping for Arduino IDE. It can be configured with Dx transport, compatible with [arduino UNO](#) and reduce the entry barrier.

The small size and high performance makes FireBeetle become idea solution for [IOT low power consumption projects](#).

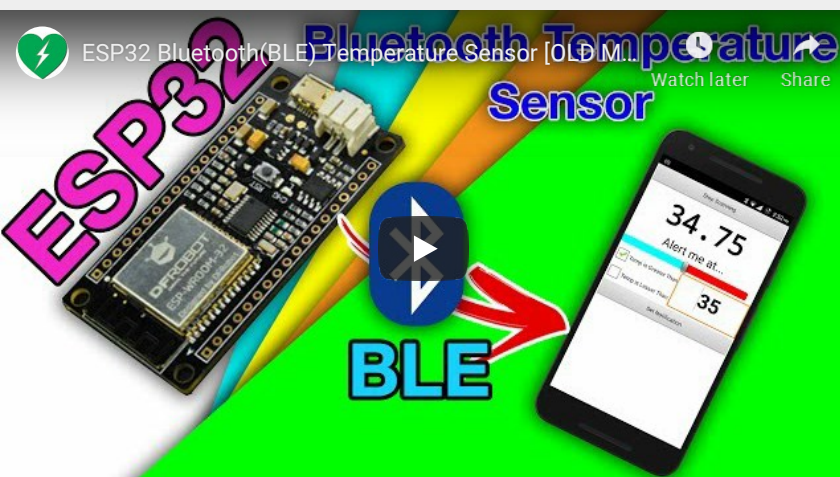
FireBeetle ESP32 IOT Microcontroller Details

Please kindly note that developers are the most common users of FireBeetle Board-ESP32 and not all of the peripherals have examples for reference, and there are still some bugs being found and fixed. For Arduino IDE, all GPIO function, I2C/SPI communication has been working. But the other functions are still under development. We recommend this board for experienced engineer.

Version Upgrade: 1. Add a new anti-reverse connection silk-screen. 2.Change the Lipo battery connector direction.



ESP32 Bluetooth(BLE) Temperature Sensor





Brew Probe - WiFi Temperature Monitor



Build a talking Alarm Clock synced to Google calendars



Hardware Components:

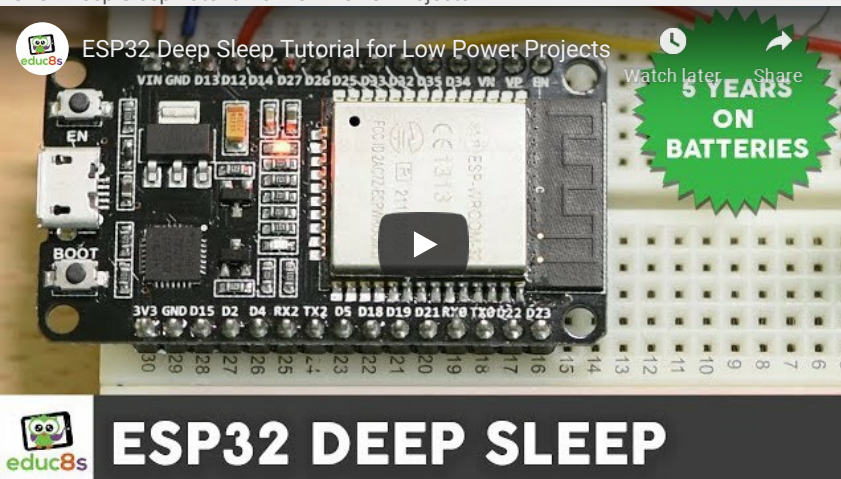
DFPlayer - A Mini MP3 Player For Arduino

FireBeetle Covers-24x8 LED Matrix (Blue)

FireBeetle ESP32 IOT Microcontroller

FireBeetle ESP32 Review





- Compatible with products in the [DFRobot FireBeetle serials](#)
- Low-power consumption(the electricity current under ultra-low power is 10μA)
- Quick Response(the top frequency is 400KHz)
- Cost-effective
- Small size, convenient to install

SPECIFICATION

- Working voltage: 3.3V
- Input voltage: 3.3V~5V
- Support electric current of low power consumption: 10 μA
- Support maximum discharge current: 600mA
- Support maximum charge current: 500mA
- Support USB charging.
- Processor: Tensilica LX6 dual core processor (One for high speed connection; one for independent programing).
- Frequency: 240MHz
- SRAM : 520KB
- Flash : 16Mb
- Wi-Fi standard : FCC/CE/TELEC/KCC
- Wi-Fi protocol: 802.11 b/g/n/d/e/l/k/r (802.11n, high speed can reach to 150 Mbps), converge A-MPDU and A-MSDU, supporting 0.4us protecting interval.
- Frequency range: 2.4~2.5 GHz
- Bluetooth protocol: Comply with BR/EDR/BLE standard of Bluetooth v4.2.
- Bluetooth audio: the current under low power consumption of CVSD and SBC is 10μA
- Working current: 80mA in average
- Frequency range: 2.4~2.5GHz
- Support one-key downloading.
- Support micropython.
- On-chip clock: 40MHz crystal and 32.768 KHz crystal.
- Digital I/O: 10 (default setting of arduino)
- Simulative input: 5(default setting of arduino)
- SPI: 1 (default setting of arduino)
- I2C: 1 (default setting of arduino)
- I2S: 1 (default setting of arduino)
- LED_BUILTIN : D9
- Interface: FireBeetle series compatible
- Working temperature: -40℃~+85℃
- Dimension: 29 × 58(mm)/1.142 x 2.283(inches)
- The dimension of mounting hole: inner diameter 3.1mm; outside diameter 6mm.

DOCUMENTS

- [Product Wiki](#)
- [More](#)

PROJECTS

Project 1. [ESP32 Solar Weather Station](#)

The system will be placed on my balcony and will retrieve temperature, humidity and air pressure. For this project you will need:

- 1x - [DFRobot FireBeetle ESP32 IOT board](#)
- 1x - [DFRobot Gravity - I2C BME280](#)
- 1x - DFRobot 3.7V Polymer Lithium Ion
- 1x - [DFRobot Solar Lipo Charger](#)
- 2x - 6V 1W Solar Panel
- 1x - Perfboard
- 1x - Female Header
- 1x - Enclosure/box
- [Wires](#)
- Screws

Project 2. [How to Make a Smart Colorful Light](#)

Today we will teach you How to Make a Smart Colorful Light Based On FireBeetle ESP32 IOT Microcontroller.

Hardware in need:

- [RGB LED Breakout \(5050\)](#)
- NPN Triode×1
- [FireBeetle ESP32 IOT Microcontroller \(Supports Wi-Fi & Bluetooth\)](#) ×1
- [FireBeetle Covers-Proto Board](#)×1
- Rotary Encoder EC11J×1
- [BME280](#)×1

Project 3. [How To Make a Step-Counter By Use Of The FireBeetle Board-ESP32](#)

The instrument not just can record steps (and calories) at real time, but show time. What is special is that the format of showing is pointer.

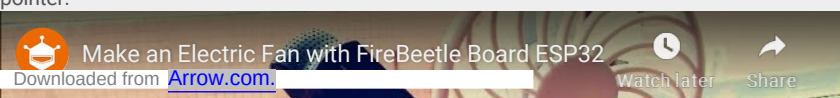


Hardware in need:

- [FireBeetle ESP32 IOT Microcontroller \(Supports Wi-Fi & Bluetooth\)](#)
- [FireBeetle Covers-Proto Board](#)
- [Gravity I2C OLED-2864 Display](#)
- [10 DOF Mems IMU Sensor](#)

Project 4. [FireBeetle Board-ESP32 Tutorials: Reforming a Small electric Fan](#)

The instrument not just can record steps (and calories) at real time, but show time. What is special is that the format of showing is pointer.





Hardware in need:

- [FireBeetle ESP32 IOT Microcontroller \(Supports Wi-Fi & Bluetooth\)](#) × 1
- [FireBeetle Covers-Gravity I/O Expansion Shield](#) × 1
- [Gravity: I2C OLED-2864 Display](#) × 1
- [BME temperature-humidity sensor](#) × 1
- EC11J rotary encoder × 1
- [9g micro servo \(1.6kg\)](#) × 1
- Dupont line × 10
- Crust By [Overlord 3D printer](#) × 1

Project 5. [Application Tutorials of FireBeetle Board - ESP32 BLE: Smarten a Plugboard](#)



What you have seen is a smart plugboard that converted by ESP32 master board and controlled by BLE of ESP32.

Hardware in need:

- [USB Power Supply Wall Adapter 5V@2.5A \(EU Standard\)](#)
- [FireBeetle ESP32 IOT Microcontroller \(Supports Wi-Fi & Bluetooth\)](#)
- [FireBeetle Covers-Gravity I/O Expansion Shield](#)
- [FireBeetle Covers-Proto Board](#)
- [Gravity: Digital 5A Relay Module](#)
- [Beetle BLE](#)
- Button
- 8Crust printed by [3D printer](#)

Project 6. [How to Make an Temperature Measurement Gun](#)

An Application Tutorial of FireBeetle ESP32 Make an Temperature Measurement Gun with Noncontact IR Temperature Sensor MLX90614



- [FireBeetle ESP32 IOT Microcontroller \(Supports Wi-Fi & Bluetooth\)](#) ×1
- [Gravity: Non-contact IR Temperature Sensor for Arduino](#) ×1
- [Gravity I2C OLED-2864 Display](#) ×1
- 3.7V 400mAh Lithium battery ×1
- Red laser transmitter (diameter: 6mm) ×1
- C&K slide switch ×1
- 3D printing crust set (2 parts) ×1

Project 7. [How to Make an Mail Alarm](#)

This time using a PIR sensor and an ESP32 to send an email every time that movement is detected.



Hardware components:

- [FireBeetle ESP32 IOT Microcontroller](#) *1
- [Digital Infrared Motion Sensor For Arduino](#) *1
- [Sealed Membrane 4*4 button pad with sticker](#) *1
- [5mm LED Pack \(50 pcs\)](#) *1
- [220R Resistor](#) *1
- Perfboard *1

Project 8 [How to Make a Name Badge with Tricolor E-ink Display](#)

Things you may need in this project:

- [FireBeetle Covers-ePaper Black&White&Red Display Module](#) ×1
- [FireBeetle ESP32 IOT Microcontroller](#) ×1
- 3.3V Micro Lithium Battery ×1
- [Push-Button Switch](#) ×1

TUTORIAL

How to Make a Low-Power-Consumption Fruit...
ESP32

2017-06-14 06:45:19

The Best ESP32 Projects Overview
ESP32

2017-08-10 08:12:01

REVIEW

FAQ

80 Comments

DFRobot

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Kazuya91 • 2 years ago

I ordered one because it claimed to be one of the most efficient ESP32 Boards with just 10µA in deepsleep Mode which is very important for many people because they use the board with a battery. But what shall i do with the low current consumption when the board is still shipped with the buggy revision 0 chip? The comment of David McNaughton is over 5 months old and he said that he also got a chip version 0. I thought after half a year there should be no rev. 0 chips anymore (also after seeing that "firebeetle v. 2.0" mark on the board itself). But no, I also got a rev. 0 chip. I paid 18 Euros inclusive shipping to Germany which is three times the price of other ESP32 Boards. I am disappointed. The Firebeetle ESP32 is now in its original box and keeps collecting dust. I cant use a board which randomly restarts itself after deepsleep (see the ESP32 official bug documents), even if the code is 100% correct (its a nature of the rev. 0 chip).

5 ^ • Reply • Share >



Javier López Ferrero (miso Jav) → Kazuya91 • 2 years ago

I do not buy. Not worth

^ • Reply • Share >



David McNaughton • 3 years ago • edited

I have had two issues with this board.

First, that DFRobot do not make it clear that they are still shipping this product with the ESP32 Revision 0 silicon.

Second, that there is probably a bug in the firmware on the STM32F042F6P6 that is performing the function of USB-Serial conversion. I posted a detailed report of this issue on the ESP32-IDF GitHub issues site, thinking at first it was a problem with the Uart on the ESP32. see: <https://github.com/espressi...>

However, when I isolated the STM32F042F6P6 by using a 3rd party USB-Serial converter based on a FT232RL protocol converter, all the dropped character and buffer overrun/loopback problems I was experiencing went away.

I hope DFRobot will address this problem because I otherwise like their products and have been buying various microcontroller boards from them for many years without any issue.

2 ^ • Reply • Share >



عمر • 2 years ago

i have read the comments , and a lot of people complain about that version 0 of the ESP32 (with known firmware bugs) and now after 5 month from the last comment , are you shipping revision 1 of the chip (with many bug fixes)?

this video speak about this problem



[see more](#)

1 ^ • Reply • Share >



DFRobot Support Mod → عمر • 2 years ago

I will ask my colleague for you to confirm the time.

^ • Reply • Share >



عمر → DFRobot Support • 2 years ago

when you will ask your colleague ?

^ • Reply • Share >



DFRobot Support Mod → عمر • a year ago

We did not do any version upgrade, just change the flash capacity.

^ • Reply • Share >



pacav69 • 2 years ago • edited

@dfrobot I'm disappointed with the support for this product (Firebeetle ESP32) or more correctly the lack of support. I posted in the forums regarding "unable to upload sketch" to this board using a MAC to upload. I posted over two months ago and still NO response.

One can only guess that they supply the product, then abandon any further interaction with the users/buyers. When i do my review i

will take this into consideration at present i'm trending towards an unfavorable outcome.

1 ^ · Reply · Share >

 **Javier López Ferrero (miso Jav)** → pacav69 · 2 years ago

No response, no solution. Not worth to buy

1 ^ · Reply · Share >

 **ShanevanJ** · 2 years ago

After installing the board package - any Wifi example gives the following error:

```
mDNS_Web_Server:34: error: invalid conversion from 'const char*' to 'char*' [-fpermissive]
```

```
WiFi.begin(ssid, password);
```

How do I fix the error ?

1 ^ · Reply · Share >

 **Live Sparks** · 3 years ago

Here's my review :



1 ^ · Reply · Share >

 **Dejan Petrović** · 6 months ago

Can someone tell me why are SCL, SDA and D9 pulled HIGH with 10K resistors on this board? It says on schematics.

^ · Reply · Share >

 **DFRobot Support** Mod → Dejan Petrović · 6 months ago

Hi Dejan,

In my opinion,

Because multiple I2C bus devices are allowed to be connected to the bus, the devices connected to the I2C bus are open-drain or open-collector and can implement wire-AND functions. At the same time, because the pull-up resistor is connected, SDA and SCL are both high during the idle period of the bus, which can prevent external interference from causing the I2C bus to be started by mistake.

^ · Reply · Share >

 **nikos antoniou** · 8 months ago

Hi, I have purchased the Firebeetle board v4.0. My problem is that the pins IO9 & IO13 are constantly HIGH and I cannot turn them LOW. I have 4 x Firebeetle boards and I have the same issue for all of them. Please advise.

^ · Reply · Share >

 **DFRobot Support** Mod → nikos antoniou · 8 months ago

Hello,

You mean that the pins IO9(D5) & IO13(D7) or D9&D13?

And i can turn the pins D5 D6 D8 D9 LOW,c

code like this :

```
void setup() {
```

```
// put your setup code here, to run once:
```

```
pinMode(D5,OUTPUT);
pinMode(D6,OUTPUT);
pinMode(D8,OUTPUT);
}

void loop() {
// put your main code here, to run repeatedly:
digitalWrite(D9,LOW);
digitalWrite(D8,LOW);
digitalWrite(D6,LOW);
digitalWrite(D5,LOW);

}
^   . Reply . Share >
|
v
```



nikos antoniou → DFRobot Support • 7 months ago • edited

Hi, I cannot turn into LOW pins IO9(D5) & IO10(D6). I cannot declare pinMode(D9,OUTPUT); I have compilation errors when I am using D9, so the code I am using is this:

```
#define S0 9
#define S1 10
#define S2 13
#define S3 5

void setup()
{
  Serial.begin(115200);

  pinMode(S0, OUTPUT);
  pinMode(S1, OUTPUT);
  pinMode(S2, OUTPUT);
  pinMode(S3, OUTPUT);

}

void loop() {

digitalWrite(S0, LOW);
digitalWrite(S1, LOW);
digitalWrite(S2, LOW);
digitalWrite(S3, LOW);

}
^   . Reply . Share >
|
v
```



nikos antoniou → nikos antoniou • 7 months ago



^ . Reply . Share >
|
v



DFRobot Support Mod → nikos antoniou • 7 months ago

And now you can pull these levels down?

^ . Reply . Share >
|
v



nikos antoniou → DFRobot Support • 7 months ago

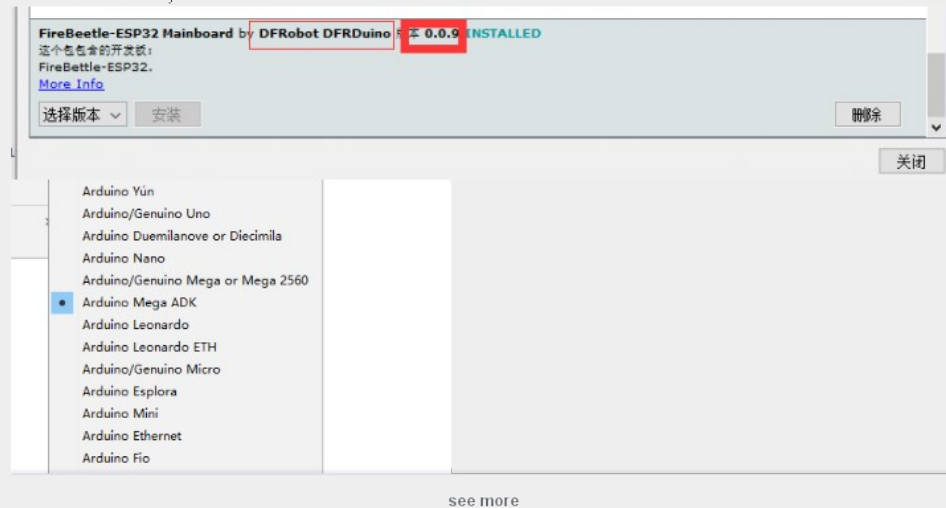
No, I cannot turn into LOW pins IO9(D5) & IO10(D6) despite the fact that upload the sketch.. I tried several esp32 firebeetle boards with the same issue. I upload the sketch but the pins keep staying HIGH

^ • Reply • Share >



DFRobot Support **Mod** → nikos antoniou • 7 months ago

which board have you added?



1 ^ • Reply • Share >



Fredrik T • 8 months ago

Silly me.... Ordered 2 solely based of the praise of Andreas Spies (Swiss Youtuber)... Added the boards manager url and added the 0.0.9 ... Still only a single FireBeetle-ESP32 ... Not partitionable... Using the same board pin definition A2 is not there... PCB silkscreen has a ref to A2... Know here this is going... Rolling my own

^ • Reply • Share >



DFRobot Support **Mod** → Fredrik T • 8 months ago

Hi Fredrik

What's your question?

Sorry,I do not know what you mean.

^ • Reply • Share >



Ardent Lee • a year ago

Can you help to check the DFR0478 hardware version? I bought the DFR0478 from Mouser, h/w version is V3. Which I want is version V4. Please help to check it.

^ • Reply • Share >



DFRobot Support **Mod** → Ardent Lee • a year ago

Hey Ardent,

Could you please email store@dfrobot.com , they can better assist you with order issues.

^ • Reply • Share >



Austin Good • a year ago • edited

Can I run this board off a 3V Lithium CR2032 coin cell battery? Or does it NEED to be 3.3V minimum?

^ • Reply • Share >



DFRobot Support **Mod** → Austin Good • a year ago

It may work, however we advise to use the minimum 3.3V to ensure stability.

^ • Reply • Share >



TestESP32 • a year ago

Hi,
I bought a FireBeetle ESP32 board (printed on the back "V3.0") recently.

The reason for buying this board (which costs like three times the price of a "regular" one) was the ultra low power consumption in deep sleep mode. And.. to be honest it really needs less power than all other boards that I have. So far so good.

BUT the problem seems, that the boards has a bug (which preventing me using it):

When using the Waveshare e-paper display (for a battery powered IoT project) and the great e-ink lib GxEPD from ZinggJM and would like to use the "partial update /partial refresh" feature of my Waveshare 2.9 display in combination with the deep sleep feature of the Firebeetle ESP32 board - it won't work (as expected).

see more

^ • Reply • Share >
|
v

 **DFRobot Support** Mod → TestESP32 • a year ago

Hi,

I assum that "partial update" means partial refresh. I checked the manual of 2.9 e-link. There are not much information about partial refresh. What we can provide is

Power mode	Comment	Power consumption
Active mode (RF working)	Wi-Fi Tx packet 13 dBm ~ 21 dBm	160 ~ 260 mA
	Wi-Fi / BT Tx packet 0 dBm	120 mA
	Wi-Fi / BT Rx and listening	80 ~ 90 mA
	Association sleep pattern (by light sleep)	0.9 mA@DTIM3 1.2 mA@DTIM1
Modem sleep	The CPU is powered on	Max speed: 20 mA Normal: 5 ~ 10 mA Slow speed: 3 mA
Light sleep		0.8 mA
Deep sleep	The ULP-coprocessor is powered on	0.5 mA
	Sensor-monitored deep sleep pattern	25 uA @1% duty
	RTC timer + recovery-memory	20 uA
	RTC timer only	5 uA
Shutdown (Turn-off)		2 uA

see more

^ • Reply • Share >
|
v

 **Bill Lee** • a year ago

Hi, Can you recommend that GPS module to work with firebeetle ESP lot ?

^ • Reply • Share >
|
v

 **DFRobot Support** Mod → Bill Lee • a year ago

Hi,

Check this. <https://wiki.dfrobot.com/GP...>

^ • Reply • Share >
|
v

 **Sung-jin Brian Hong** • 2 years ago

I've noticed that DFRobot is preparing v3.0: [http://wiki.dfrobot.com.cn/...](http://wiki.dfrobot.com.cn/)

And it's using CH340C as the USB-to-UART chipset! I think this might solve serial problems I'm having.

When will this release? Can I buy this now?

^ • Reply • Share >
|
v

 **DFRobot Support** Mod → Sung-jin Brian Hong • 2 years ago

Unfortunately, a new version of FireBeetle ESP32 is currently not on our schedule. :(The time to have an update depends on our resource allocation. Thank you for your support and patience!

^ • Reply • Share >
|
v

 **Игорь Силенок** • 2 years ago

Hello.

I have a few questions about programming ESP32.

1) The description indicates that ESP32 has Flash: 16Mb but, when programming, I see in the Arduino IDE log:

Configuring flash size ...
Auto-detected Flash size: 8MB

Is this a wrong memory defined, or is there 8 mb flash on my board?

2) In the settings of the board for programming, what is the difference between Flash types:

- QIO
- DIO

DOUT

^ • Reply • Share >



DFRobot Support Mod → Игорь Силенок • 2 years ago

Hello,

1)There is 8MB flash on your board.

2)

QIO , for flash that support quad r/w operation(e.g. W25Q)

QOUT, for flash that support quad read operation(e.g. W25Q)

DIO, for flash that support dual r/w operation(e.g. W25Q &W25X)

DOUT, for flash that support dual read operation(e.g. W25Q &W25X)

^ • Reply • Share >



Erik Vincent • 2 years ago

I have a ver 1.0 ESP32 Firebeetle and it doesn't work correctly. I have the Arduino IDE 1.8.7 and the board manager of the Firebeetle ESP32 v0.0.8. If I do the serial "Hello World" or even Serial Bluetooth stuffs, it works fine, but it appears that the digitalWrite no longer works. When I first plugged it in, the Blinky LED was working correctly, but after my first simple sketch, it ceased to work. If I put a volt meter on it, several of the pins are hard set to 3.3V and do not seem to respond to Arduino IDE code of changing pinMode or digitalWrite, so I am lost as to why this is. I haven't plugged anything into any of the GPIO pins, so it is unlikely I fried anything. I am guessing it has something to do with the Arduino IDE. Any help would be good, otherwise, this module isn't really worth it.

^ • Reply • Share >



DFRobot Support Mod → Erik Vincent • 2 years ago

Hi,

There was a customer who had the same problem as you yesterday. You can try the board manager of the Firebeetle ESP32 V0.0.7 first. I have been communicating with our product manager.

^ • Reply • Share >



Sung-jin Brian Hong • 2 years ago

I'm using Firebeetle ESP32 for two weeks. There are one serious problem with this board.

I'm using a Mac and Arduino sketch uploads only succeeds one in nine attempts. I've bought a Adafruit FT232H breakout board and manually connected the FT232H to the Firebeetle ESP32's serial ports. And the sketch upload succeed 100%!

There are definitely a bug in the USB-to-serial in the board. Please test it using Mac...

There is similar problems reported by David McNaughton in this comments below. Please have a look!

Otherwise, this board is AMAZING with it's low power consumption. I'm using the e-paper shield to make a long lasting display device. You guys rock.

Just please fix the usb-to-serial problems... Thank you!

^ • Reply • Share >



DFRobot Support Mod → Sung-jin Brian Hong • 2 years ago

Thank you for your feedback, I will give this question to our colleagues.

^ • Reply • Share >



Mike McRoberts • 2 years ago

In the description you say Flash: 16Mbit I think you mean 16Mb

^ • Reply • Share >



DFRobot Support Mod → Mike McRoberts • 2 years ago

Yes, that's a mistake, thank you for pointing this out.

^ • Reply • Share >



Simon Rafferty • 2 years ago

Well, that didn't go according to plan!

The board manager in the Arduino IDE doesn't download the board definition. Trying it with the (generic?) ESP Dev Module, compiles then:

"Connecting....

A fatal error occurred: Timed out waiting for packet header"

I bought the board on Amazon:

<https://www.amazon.co.uk/gp...>

And it's V1.0 - with a reduced selection of IO pins (Most have NC printed on the board) but still has enough for this application.

This is not my first ESP32 project - but I've failed at the first hurdle! I can't even get it to upload. I'd appreciate any assistance.

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DFRobot Support Mod → Simon Rafferty · 2 years ago

What is the Arduino IDE version you used? If possible, could you use another PC to test it?

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Simon Rafferty → DFRobot Support · 2 years ago

I've tried two versions of the IDE, inc 1.8.5 on two different PC's .

Unfortunately, I'd spent more time on it than it was worth. I bought an Adafruit Feather ESP32 instead - and it worked first time. The Firebeetle has gone in the bin!

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DFRobot Support Mod → Simon Rafferty · 2 years ago

The Amazon link you gave is FireBeetle ESP8266, did you use the right .json file from the wiki?
<https://www.dfrobot.com/wiki...>

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Eric Wertz · 2 years ago

Is this shipping with Rev 1 silicon on it yet, or not?

There's no info in the forums that I found about this.

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DFRobot Support Mod → Eric Wertz · 2 years ago

What do you mean the silicon? We should ship the latest version of Firebeetle.

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David Pease → DFRobot Support · 2 years ago

He means the ESP32. Are you shipping revision/version 0 of the ESP32 (with known firmware bugs), or are you now shipping revision 1 of the chip (with many bug fixes)?

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1



Eric Wertz → David Pease · 2 years ago · edited

I'm unsure that the problems with Rev 0 is only firmware. It's my understanding that the *silicon* was changed to fix the bugs. There might be some workarounds in the Rev 0 firmware, but the (in this case, low power) function simply doesn't work as intended.

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Geert Vansintjan · 2 years ago

I am working on a Firebeetle linked to a few sensors (air humidity, ec, soil humidity, distance) . It will be used in a wet environment. So I am looking to connect the sensors pluggable to the box, with a connection to the shield from the box. What connectors and plugs would you use?

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DFRobot Support Mod → Geert Vansintjan · 2 years ago

Could you take a picture of how you mount all the parts?

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