

## Specification

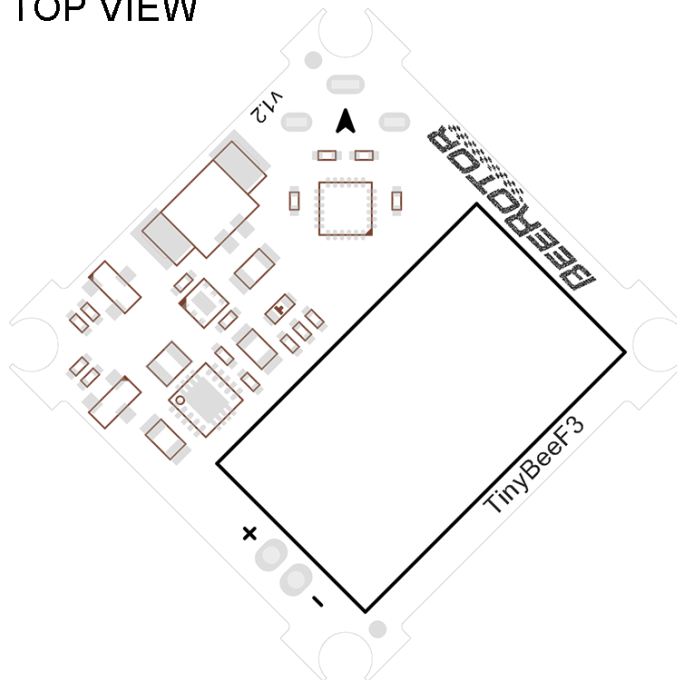
- Power input: Li-Po 1~2s
- Dimension: 29x29x8.3mm
- Fixing holes spacing: 25.4x25.4mm
- Weight: 4.3g (include power and receiver cables)

# GETTING STARTED

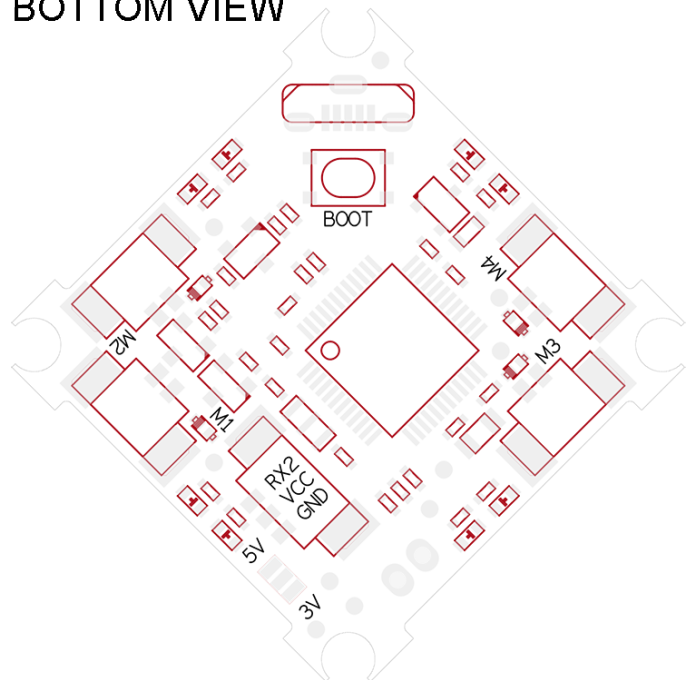
## Board layout

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### TOP VIEW



### BOTTOM VIEW



## Basic Hardware Setup

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### Setting the voltage of receiver

Select the correct voltage and bridging the appropriate jumpers for your receiver. It is on the back of the board near the receiver socket.

By default, it is set to 5V.

If a DSM2/DSMX receiver is connected to TINYBEEF3, please set it to 3V first.

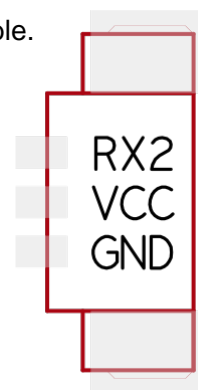


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### Connect a Receiver to TBF3

Connect the receiver to the socket using the included cable or a compatible cable.

Receiver PPM/SBUS/DSM	
1	GND
2	VCC (5V or 3.3V)
3	UART2_RX



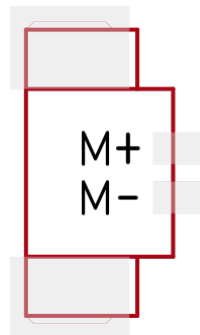
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### Connect brushed motors

Connect brushed motors to the sockets marked M1/M2/M3/M4.

Please refer to the BetaFlight Configurator about correct order of motors.

Motor Output M1/M2/M3/M4	
1	MOTOR + (VBAT)
2	MOTOR - (GND)



## Basic Software Setup

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### DFU Mode

TINYBEEF3 has two work modes after powered, normal mode and DFU mode. Hold the boot button while plugging in the USB cable, and then release button, TINYBEEF3 will enter DFU mode. Otherwise, TINYBEEF3 is in the normal mode.

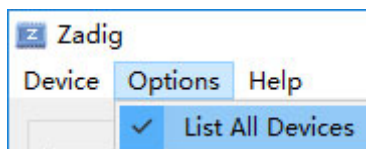
### Install DFU driver

TINYBEEF3 connect to computer via OTG function, you must install the appropriate drivers to ensure proper flash firmware.

#### Windows users:

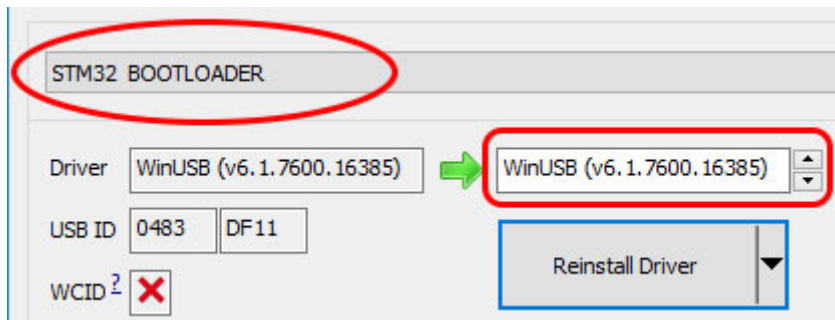
Download Zadig from <http://zadig.akeo.ie>

Open Zadig, in the menu, select Options > List All Devices.



Select STM32 BOOTLOADER and WinUSB Driver.

If the STM32 BOOTLOADER can not be displayed, please re-enter DFU mode.



Click "Reinstall Driver" or "Replace driver".



#### Mac / Linux users:

Driver will install automatically.

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### Betaflight Configurator

Betaflight Configurator will be used to configure TINYBEEF3.

<http://chrome.google.com/webstore>

### Use Betaflight Configurator to Flash / Upgrade Firmware

Disconnect the TINYBEEF3 from your computer.

Switch to DFU mode.

Open Betaflight Configurator, click the Firmware Flasher tab.

Select TINYBEEF3 and version in the Board menu.

Select Full chip erase.

Click Load Firmware [Online] and wait for the download is completed.

Click Flash Firmware and wait for the flash process is completed

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