

KAKUTE FC Modification Instruction for Octo x8 Multirotor Frame

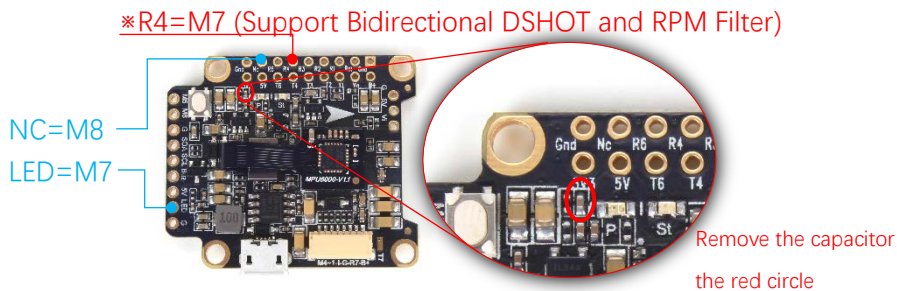
To enable Kakute F7 flight controller to have 8x PWM Motor Output for Octo x8 Multirotor Frame, please follow the instruction below:

Step 1.

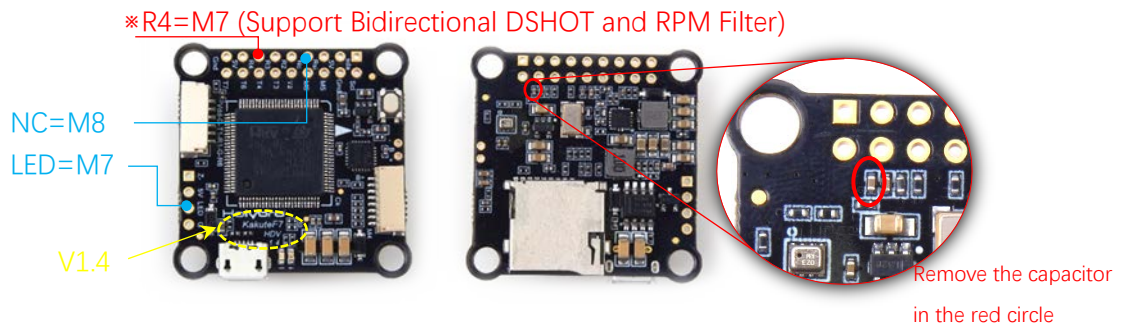
Remove the capacitor in the red circle marked in the pictures below according to your Kakute F7 model.

Please note that you have the options to connect M7 to R4 or LED pads. Connecting to R4 pad will allow Bidirectional DSHOT and RPM Filter support, but you will lose UART4 RX.

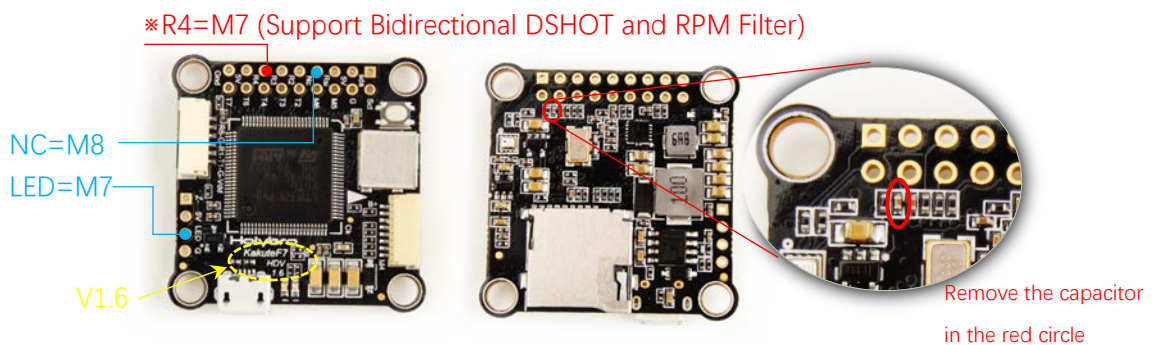
KAKUTE F7 V1.5



KAKUTE F7 HDV V1.4



KAKUTE F7 HDV V1.6



Step 2a – Follow this step only if M7 is soldered onto LED & M8 is soldered onto NC

Go to Betaflight CLI and type in the following:

```
resource LED_STRIP 1 NONE
resource MOTOR 7 D12
resource MOTOR 8 B03
timer B03 AF1
dma pin B03 0
save
```

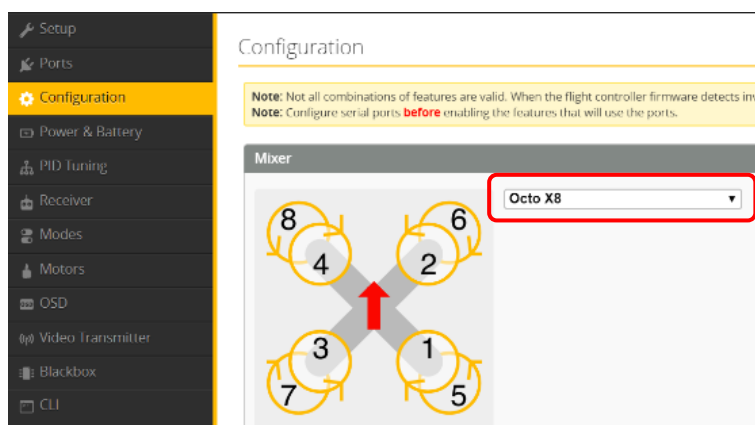
Step 2b – Follow this step only if M7 is soldered onto R4 & M8 solder onto NC

Bidirectional DSHOT and RPM Filter supported. Note that this will disable UART4 RX.
Go to Betaflight CLI and type in the following:

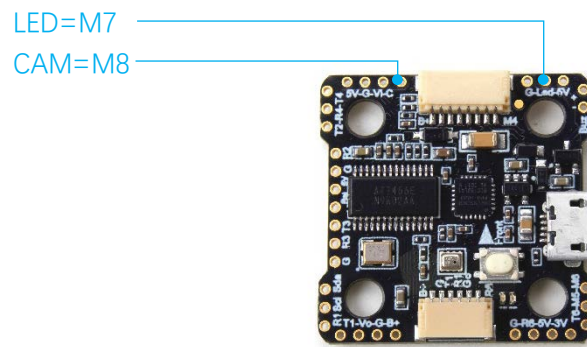
```
resource CAMERA_CONTROL 1 NONE
resource SERIAL_RX 4 NONE
resource MOTOR 7 A01
resource MOTOR 8 B03
timer A01 AF2
timer B03 AF1
dma pin A01 0
dma pin B03 0
save
```

Step 3.

Go to Betaflight Configuration tab and select “Octo X8” under “Mixer”.



KAKUTE F7 Mini V3



Step 1

Go to Betaflight CLI and type in the following:

```
resource LED_STRIP 1 NONE
resource CAMERA_CONTROL 1 NONE
resource MOTOR 7 A08
resource MOTOR 8 B03
save
```

Step 2.

Go to Betaflight Configuration tab and select "Octo X8" under "Mixer".

