# **MAMBA STACK**

FC: MAMBA Basic APP F405 MK I **ESC:MAMBA F50 PRO** 

#### Stack Specifications:

STM32F405RGT6 MCU Frequency 168MHz GYRO MPU6000 OSD AT7456E Blackbox 16M Memory Uarts 6 Set

TBS/SBUS/IBUS/DSM Receiver

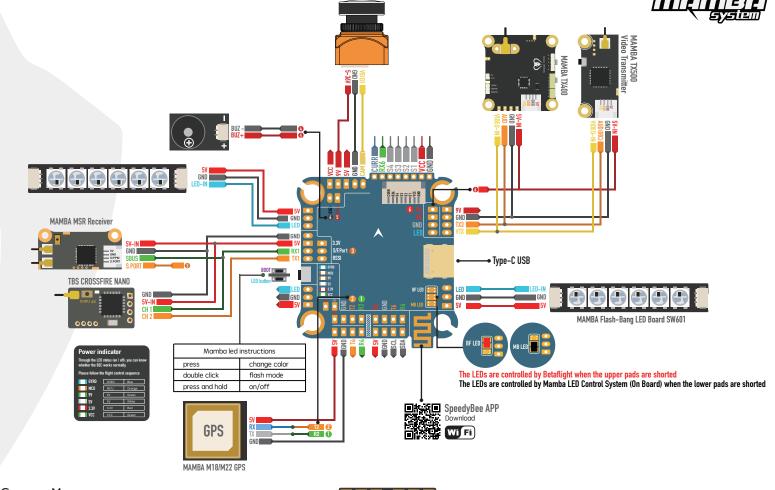
I2C Yes Yes **RSSI** Pad F.Port Yes Buzzer Pad Yes **CURR Pad** Yes **ESC Signal** 4 Set **BEC 3.3V** 0.5A BEC 5V 3A BEC 9V (DJI Power) 3A Yes MB LED BF LED Yes

WIFI Yes Input 6S Lipo TVS Protection Yes Betaflight Soft Ware

Mounting 30.5×30.5mm/M3 38.0×41.5×7.5mm Size

Weight 9.5q

Web: www.digtone.us



Target: MAMBAF405US I2C Main firmware STM32 F405 Config file

set mag i2c device = 1 MAMBAF405US I2C

### When Using Compass Magnetometer, Following Command:

set mag bustype = i2c

#### The Default Port:

UART 1 Receiver UART 2 Vacancy UART 3 VTX UART 4 WIFI UART 5 S/F.Port UART 6 TELE

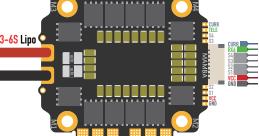






Capacitor requested when using 6S battery





MAMBA F50 PRO ESC

#### **ESC**

**CURR** Yes Telemeteru Yes Output Current 50A Peak Current 55A Input 3-6S Lipo BLheli-32

Target MAMBA F50 PRO Protocol Dshot 300/600/1200 Mounting 30.5×30.5mm,Ø3 45.0×41.0×6.5mm Size

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# **MAMBA STACK**

FC :MAMBA Basic APP F405 MK I ESC:MAMBA F50

#### Stack Specifications:

 MCU
 STM32F405RGT6

 Frequency
 168MHz

 GYRO
 MPU6000

 OSD
 A77456E

 Blackbox
 16M Memory

 Uarts
 6 Set

Receiver TBS/SBUS/IBUS/DSM

I2C Yes Yes **RSSI** Pad F.Port Yes Yes Buzzer Pad Yes **CURR Pad ESC Signal** 4 Set **BEC 3.3V** 0.5A 3A BEC 5V BEC 9V (DJI Power) 3A

 MB LED
 Yes

 BF LED
 Yes

 WIFI
 Yes

 Input
 6S Lipo

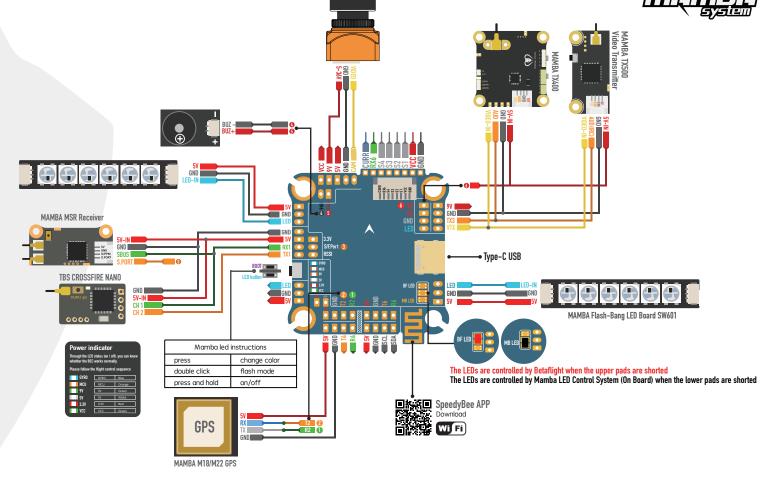
 TVS Protection
 Yes

 Soft Ware
 Betaflight

Mounting 30.5×30.5mm/M3 Size 38.0×41.5×7.5mm

Weight 9.5g

Web: www.diatone.us



### Target: MAMBAF405US\_I2C

Main firmware STM32 F405 Config file MAMBAF405US I2C

## When Using Compass Magnetometer, Following Command:

set mag\_i2c\_device = 1 set mag\_bustype = i2c

#### The Default Port:

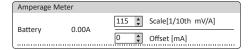
UART 1 Receiver
UART 2 Vacancy
UART 3 VTX
UART 4 WIFI
UART 5 S/F.Port
UART 6 TELE

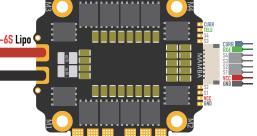






Capacitor requested when using 6S battery





MAMBA F50 ESC

#### **ESC**

CURR Yes
Output Current 50A
Peak Current 55A
Input 3-6S Lipo
BLheli-32 Yes
Target CH40

 Protocol
 Dshot 300/600

 Mounting
 30.5×30.5mm,Ø 3

 Size
 45.0×41.0×6.5mm

Weight 1