# **MAMBA STACK**

FC: MAMBA APP F405 MKI **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

MB LED Yes 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

MAMBA MSR Receiver → Type-C USB TBS CROSSFIRE NANO Mamba led instructions press change color The LEDs are controlled by Betaflight when the upper pads are shorted
The LEDs are controlled by Mamba LED Control System (On Board) when the lower pads are shorted double click flash mode press and hold Download

Wi Fi

Target: MAMBAF405US I2C Main firmware STM32 F405

Config file MAMBAF405US I2C

#### The Default Port:

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





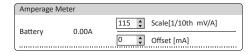
#### When Using Compass Magnetometer, Following Command:

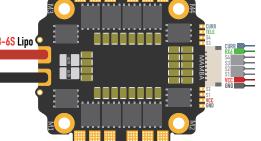
set mag i2c device = 1 set mag bustype = i2c



MAMBA M18/M22 GPS

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

MAMBA Flash-Bang LED Board SW601

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

Weiaht

## **MAMBA STACK**

FC :MAMBA APP F405 MK I ESC:MAMBA F50

#### Stack Specifications:

 MCU
 STM32F405RGT6

 Frequency
 168MHz

 GYRO
 MPU6000

 OSD
 AT7456E

 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

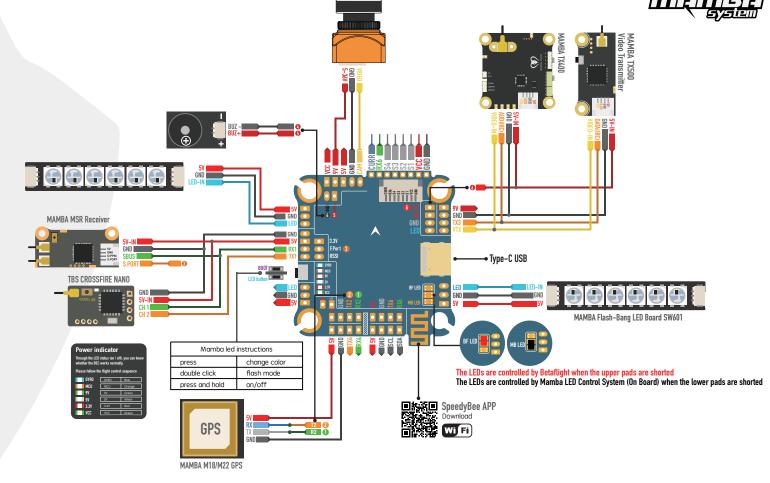
 TVS Protection
 Yes

 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:

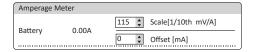
UART 1 Receiver UART 2 Vacancy UART 3 VTX UART 4 WIFI UART 5 S/F.Port UART 6 TELE

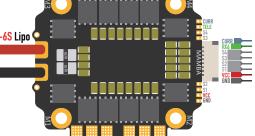






Capacitor requested when using 6S battery





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