## LAYOUT

Rx2: UART2-RX for Serial\_RX by default \*PPM is not supported by INAV

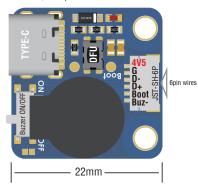
Tx2: UART2-TX \*softserial1\_tx is an alternative on Tx2 pad in INAV

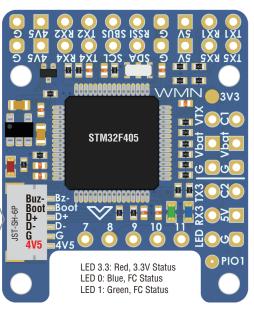
Sbus: UART2\_RX + inverter for SBUS receiver

Rssi: Analog RSSI ADC, 0~3.3V

Tx4/Rx4: UART4\_Tx/Rx SDA & SCL: I2C\_SDA, SCL, for compass Digital Airspeed

DFU Button: F405 DFU mode. Connect USB to the PC While holding the boot button in. Red LED, USB power indicator





	INAV AirPlane	INAV Multirotor	ArduPilot
S1	Motor	Motor	PWM1
S2	Motor	Motor	PWM2
S3	Servo	Motor	PWM3
S4	Servo	Motor	PWM4
S5	Servo	Motor	PWM5
S6	Servo	Motor	PWM6
S7	Servo	Motor	PWM7
S8	Servo	Motor	PWM8
S9	Servo	Servo	PWM9
S10	Servo	Servo	PWM10
S11	Servo	Servo	PWM11
LED	2812 LED	2812 LED	PWM12

TX5/RX5: UART5\_Tx/Rx TX1/RX1: UART1\_Tx/Rx

5V: onboard BEC 5V 1.5A cont. Max.2A \*\*\* 5V is not supplied when connecting USB only. 4V5: 4.4~4.8V, Max.800mA \*\*\* 4V5 is also supplied when connecting USB only 3.3: LD03.3V 200mA G: Ground

Vbat: Battery voltage

VTx: Video OUT for Video Transmitter

- C1: Camera-1 video IN (Default)
- C2: Camera-2 video IN
- \*\*\* C1/C2 can be switched via ArduPilot Relay or INAV Modes/USER2 \*\*\* Two cameras should be set with identical video format, both PAL or both NTSC

TX3/RX3: UART3\_Tx/Rx

PIO1: Low/High level switchable via INAV Modes/USER1 or ArduPilot Relay

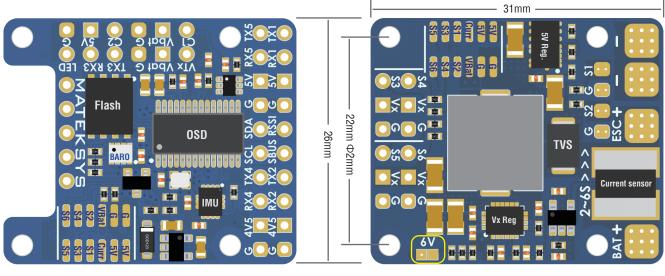
+ & - : Battery & ESC power pads, 6~30V DC(2~6S LIPO) Current Sensor: 132A Range, 90A Cont.

onboard battery voltage sense: BATT\_VOLT\_PIN 14, BATT\_VOLT\_MULT 21 INAV scale 2100

onboard current sense: BATT\_CURR\_PIN 15, BATT\_AMP\_PERVLT 40 INAV scale 250

S1/S2: ESC signal for motor 1 & 2 G: Ground

Vx: onboard BEC for servos, Default 5V, 5A cont.

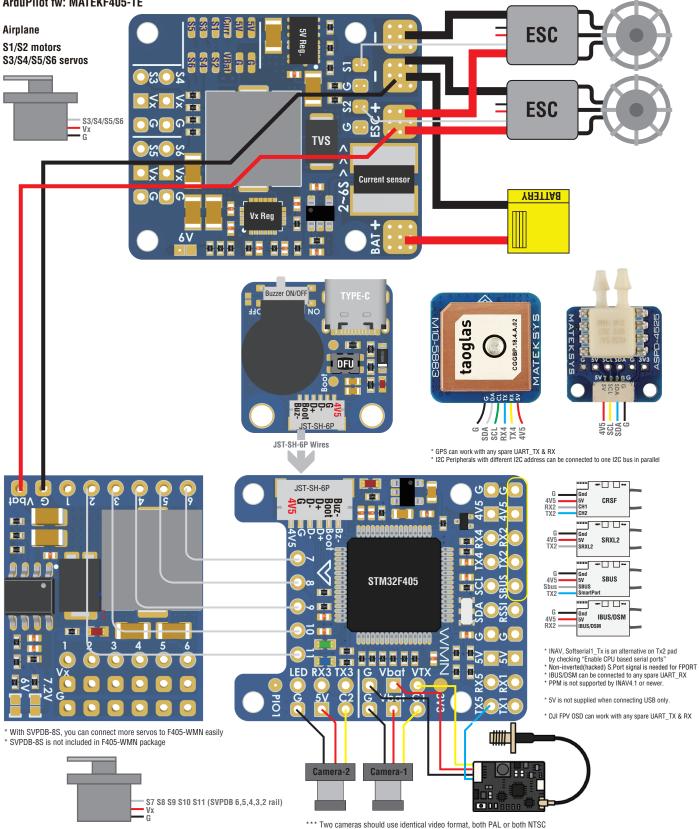


Size: 31x26x16.5mm Weight: 10g Holes: Ф2mm, 22mm mounting



## Wiring (Airplane)

## INAV fw: MATEKF405TE ArduPilot fw: MATEKF405-TE



\*\*\* Two cameras should use identical video format, both PAL or both NTSC \*\*\* Double check Camera signal and power cables before powering them up.