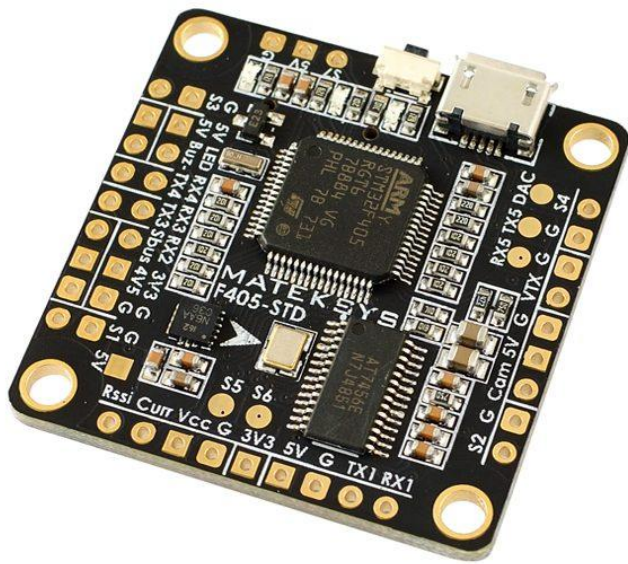




# MATEKSYS

## CONTRÔLEUR DE VOL F405-STD

STM32F405, ICM20602, BMP280, BFOSD, logement de carte SD, VCP + 5x UART, 6x sorties PWM / DShot

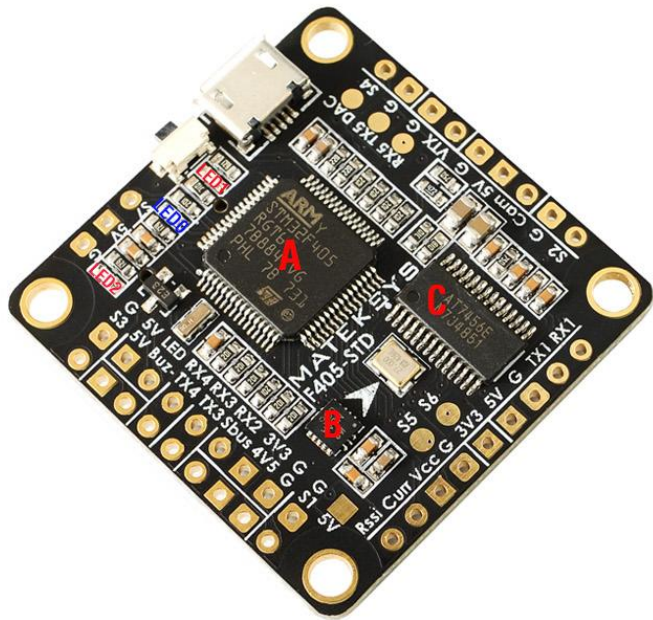


### MATEKSYS Flight Controller F405-STD

- \* 168MHz STM32F405RGT6
- \* 6-Axis ICM20602
- \* BetaFlight OSD
- \* BMP280 Barometer
- \* MicroSD BlackBox
- \* VCP & 5x UARTS
- \* 6 PWM/DSHOT outputs
- \* I2C1 & DAC
  
- \* MATEKF405 Target

Album & INFO

[Firmwares](#)



- A MCU: STM32F405RGT6 (168MHz)
- B IMU: ICM-20602 (32kHz Max.)
- C OSD: BetaFlight OSD w/ AT7456E chip
- D Baro: BMP280
- E BlackBox: MicroSD Slot

- F 16Pin FFC Slot: For FCHUB-6S or FCHUB-VTX option connection

Button: Boot(DFU) mode button  
 LED0(Blue) & LED1(Red): FC Status indicator  
 LED2(Red):3.3V indicator

(5V G S1 S2 S3 S4)6pins pads: For 4in1 ESC signal group connection

S1~S6 pads: ESC signal 1~6 (PWM, Oneshot, Multishot, DSHOT)  
 S7 pad: PB8, can be resourced to 2812 led\_strip in BetaFlight  
 can be used for Motor-2 in INAV

Vcc: LiPo voltage input, for battery voltage detection only. Scale 110.  
 Curr: External current sensor signal input (Max.3.3V)  
 Rssi: Frsky RSSI(PWM) input

5V: Power the board from external BEC 5V or output 5V to other devices.  
 3V3: LDO 3.3V, Max. 300mA  
 4V5: 4.4~4.8V, the voltage is also supplied when connecting via USB  
 G: Ground  
 LED: WS2812 LED Strip signal  
 Buz- & 5V: For active 5V buzzer

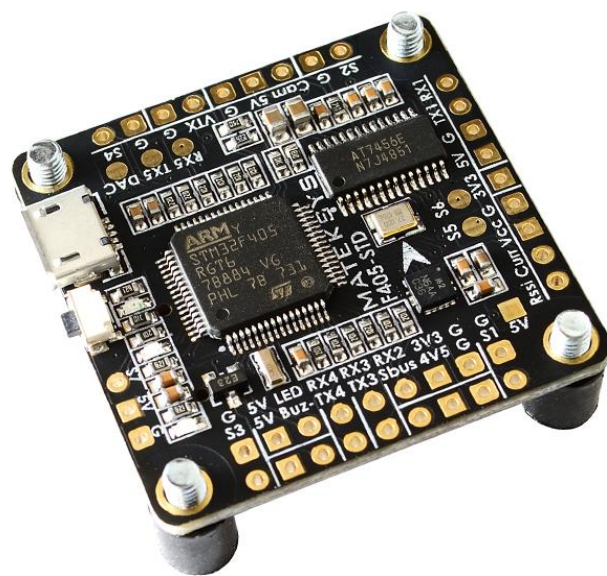
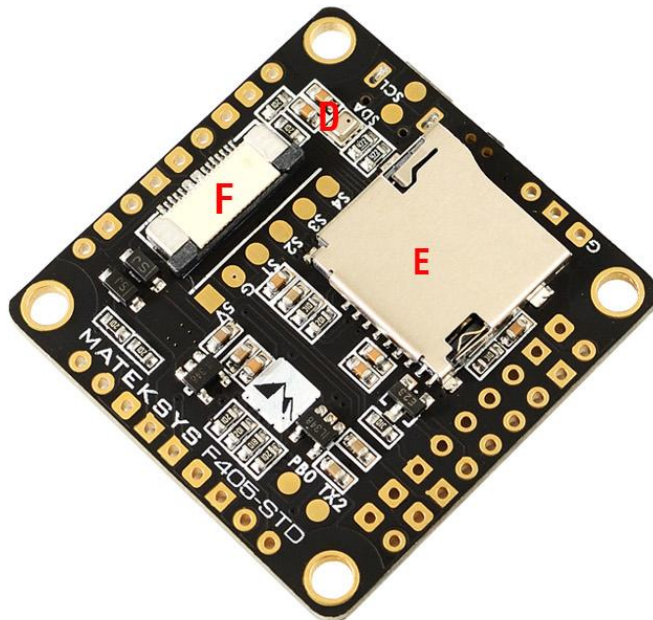
VTX: Video Transmitter Signal  
 Cam: Camera video signal  
 DAC: Camera control pin (BF3.3)

SDA & SCL: I2C1 for magnetometer connection

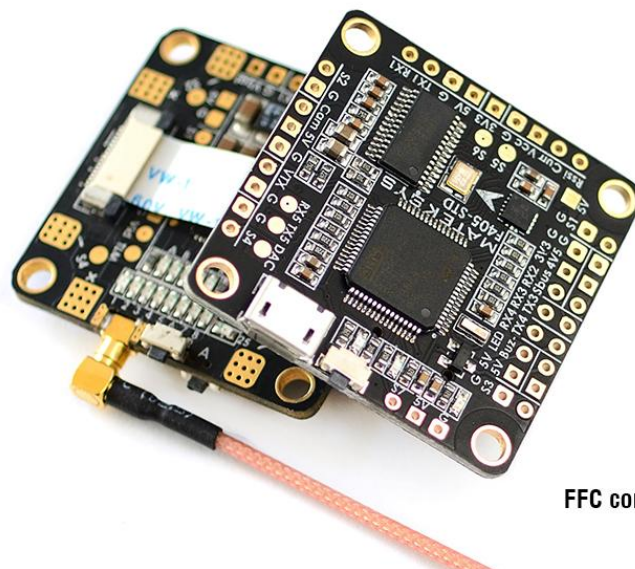
SBus: Built in inverter of RX2 for SBus input  
 RX2: UART2-RX for DSM2, DSMX, IBUS, PPM share RX2 pad  
 TX2: PA2 with TIM9\_CH1, can be resourced to softserial  
 RX1/TX1: UART1, RX3/TX3: UART3, RX4/TX4: UART4, RX5/TX5: UART5

Tips:  
 TX3, TX4 & TX5 can be used for SA\_VTX & TR\_VTX control directly.  
 Non-inversion hacks must be required for Frsky Smartport on TX pins  
 S5 (PA15) or TX2 (PA2) can be resourced to softserial  
 2812LED share I2C1\_SCL pad. only one can work, turn off another one.  
 or resource 2812 led\_strip to S7(PB8) in BetaFlight  
 S5 (PA15) or S6 (PA8) can be resourced to Camera Control

Size: 36x36mm with 30.5mm mounting holes  
 Weight: 7g



**Soft Mounting**  
**w/ 4pcs Rubber Anti-Vibration Standoffs**



**FFC connection with FCHUB-6S / FCHUB-VTX / FCHUB-W**



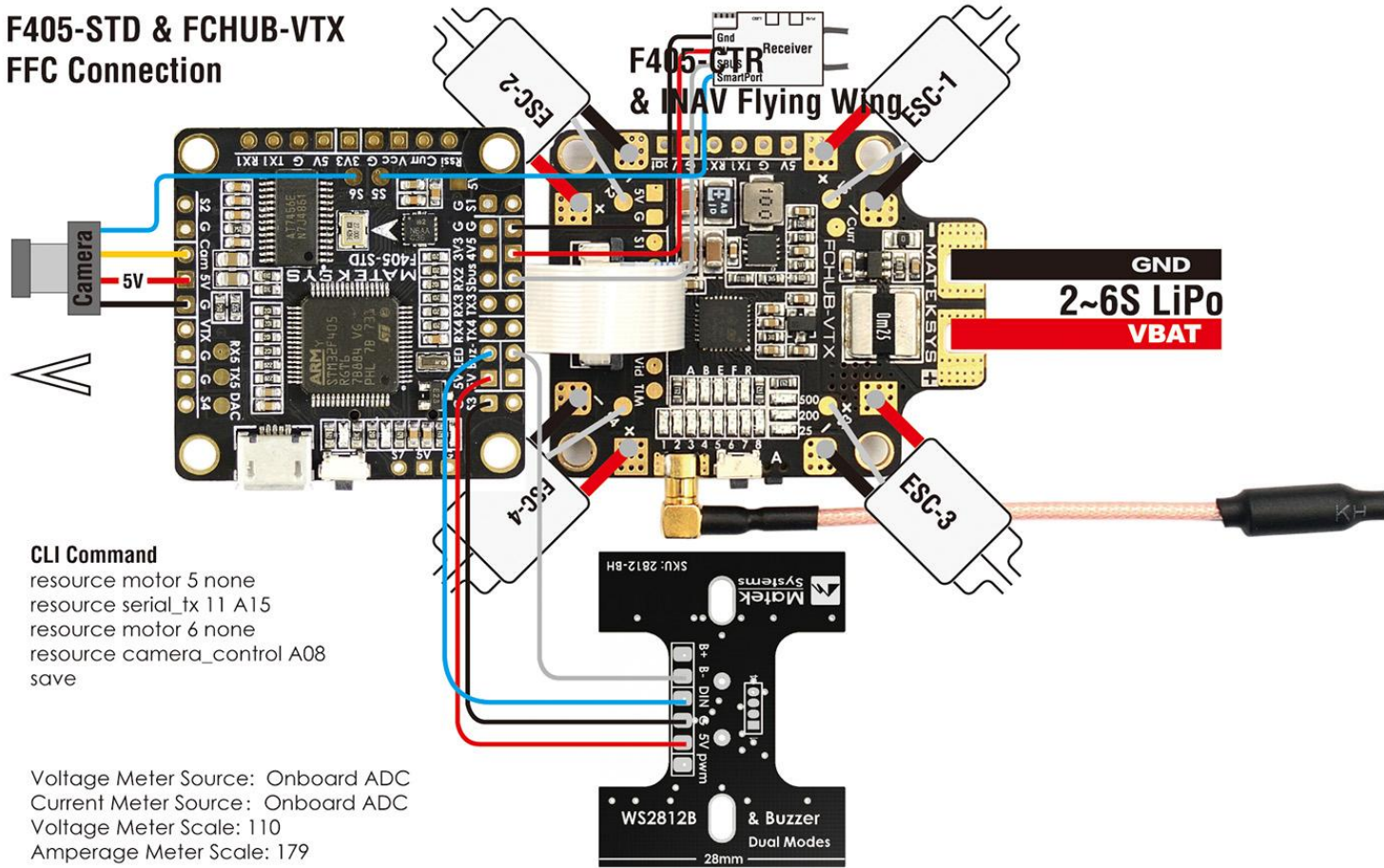
### Spéc. Et caractéristiques

- MCU: STM32F405RGT6 168 MHz
- IMU: gyroscope / accéléromètre (SPI) 32K ICM20602
- Baro: BMP280 (I2C)
- OSD: OSD BetaFlight avec puce AT7456E
- Blackbox: Emplacement pour carte MicroSD (SD / SDHC)
- VCP, UART1, UART2, UART3, UART4, UART5
- Onduleur intégré pour entrée SBUS (UART2-RX)
- PPM / UART partagé: UART2-RX
- SoftSerial sur TX2, S5 ou S6 en option
- Contrôle de la caméra sur S6 ou DAC en option
- Protocole Smartaudio & Tramp VTX supporté
- Capteur de tension de la batterie: 1:10
- Capteur de courant: Non (option FCHUB-6S, FCHUB-VTX, FCHUB-W)
- BEC 5V: Non (option FCHUB-6S, FCHUB-VTX, FCHUB-W)
- LDO 3.3V: Max.300mA
- I2C1 SDA & SCL: Oui
- WS2812 Led Strip: Oui
- Beeper: Oui
- RSSI: oui
- 3 LED pour FC STATUS (bleu, rouge) et indicateur 3,3V (rouge)
- 6 sorties PWM / DShot sans conflit
- 2x sorties en option 2812LED
- 5x UART
- 1x groupe de 5V / G / S1 / S2 / S3 / S4 pour signal 4N1 ESC / GND

- 4x paires de coudes d'angle pour les connexions Signal ESC / GND (compatible DSHOT)
- 1x paire de pads I2C1
- 1x bouton-poussoir latéral pour le mode BOOT (DFU)
- 1x emplacement FFC à 16 broches monté en dessous pour une connexion FCHUB-6S, FCHUB-VTX ou FCHUB-W
- Circuit imprimé 36x36mm avec trous de montage de 30.5mm
  
- w / 2x 0.5mm \* 16Pin 5cm Câble plat flexible
- w / 4pcs M3 Supports anti-vibration

Câblage BF

### F405-STD & FCHUB-VTX FFC Connection

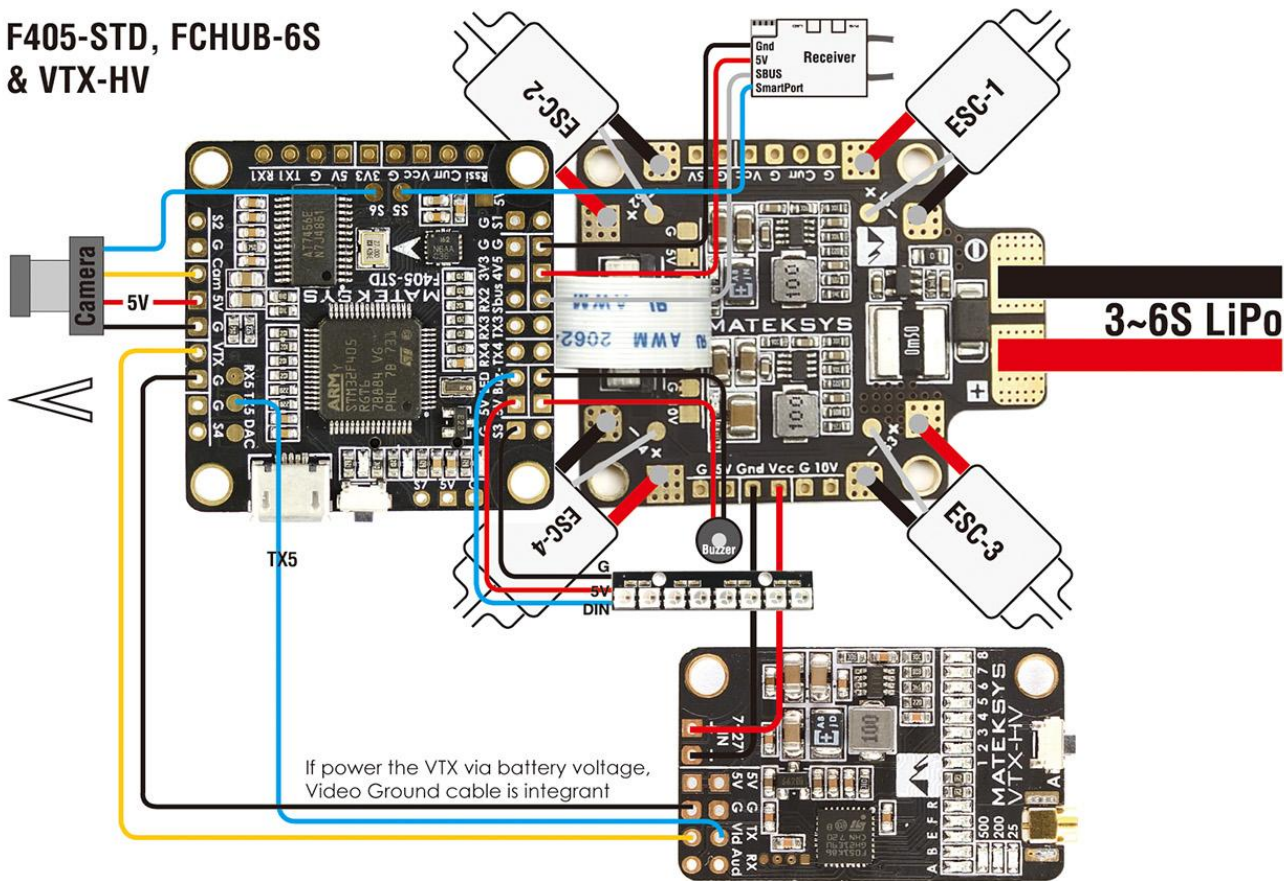


**CLI Command**  
 resource motor 5 none  
 resource serial\_tx 11 A15  
 resource motor 6 none  
 resource camera\_control A08  
 save

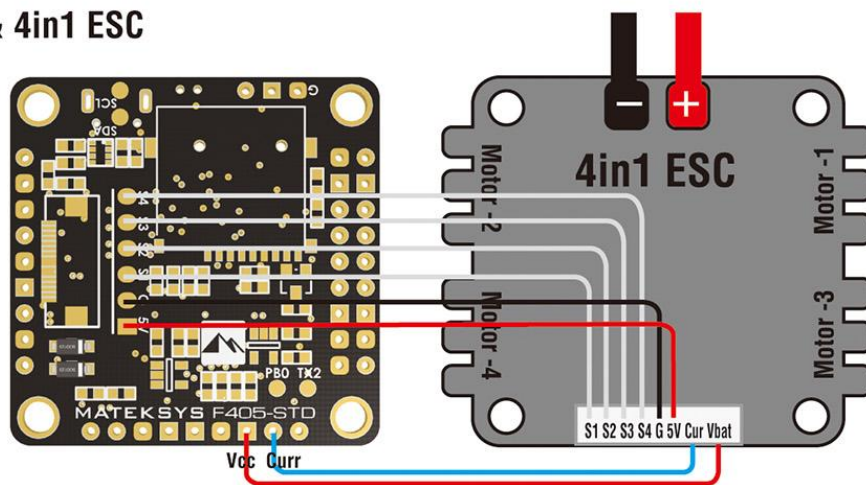
Voltage Meter Source: Onboard ADC  
 Current Meter Source: Onboard ADC  
 Voltage Meter Scale: 110  
 Amperage Meter Scale: 179

Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART1	<input type="checkbox"/> 115200	<input type="checkbox"/>	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART2	<input type="checkbox"/> 115200	<input checked="" type="checkbox"/>	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART3	<input type="checkbox"/> 115200	<input type="checkbox"/>	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART4	<input type="checkbox"/> 115200	<input type="checkbox"/>	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART5	<input type="checkbox"/> 115200	<input type="checkbox"/>	Disabled   AUTO	Disabled   AUTO	IRC Tramp   AUTO
SOFTSERIAL1	<input type="checkbox"/> 115200	<input type="checkbox"/>	SmartPort   AUTO	Disabled   AUTO	Disabled   AUTO

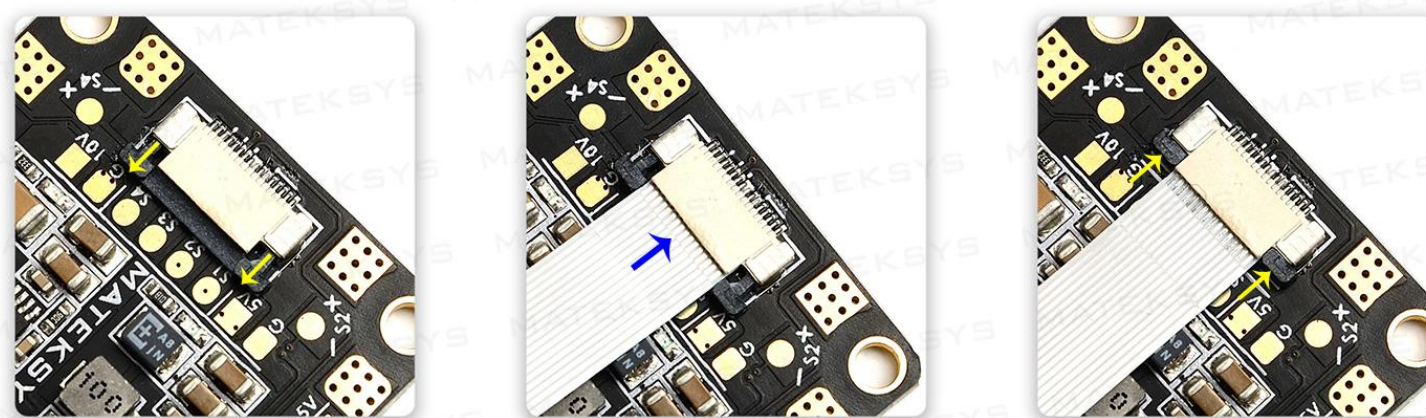
### F405-STD, FCHUB-6S & VTX-HV



### F405-STD & 4in1 ESC



### Conseils: Tirez délicatement la barre de verrouillage en plastique pour ne pas la casser.



#### F405-STD & Receivers

	<table border="1"> <thead> <tr> <th>Identifier</th> <th>Configuration/MSP</th> <th>Serial Rx</th> </tr> </thead> <tbody> <tr> <td>USB VCP</td> <td><input checked="" type="checkbox"/> 115200</td> <td><input type="checkbox"/></td> </tr> <tr> <td>UART1</td> <td><input type="checkbox"/> 115200</td> <td><input type="checkbox"/></td> </tr> <tr> <td>UART2</td> <td><input type="checkbox"/> 115200</td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table>	Identifier	Configuration/MSP	Serial Rx	USB VCP	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>	UART1	<input type="checkbox"/> 115200	<input type="checkbox"/>	UART2	<input type="checkbox"/> 115200	<input checked="" type="checkbox"/>	<div style="border: 1px solid #ccc; padding: 5px;"> <p><b>Receiver</b></p> <p>Serial-based receiver (SPEKSAT, ε) Receiver Mode</p> <p><b>Note:</b> Remember to configure a Serial Port (via Ports tab) and choose a Serial Receiver Provider when using RX_SERIAL feature.</p> <p>SBUS Serial Receiver Provider</p> </div>
Identifier	Configuration/MSP	Serial Rx												
USB VCP	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>												
UART1	<input type="checkbox"/> 115200	<input type="checkbox"/>												
UART2	<input type="checkbox"/> 115200	<input checked="" type="checkbox"/>												
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USB VCP	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>												
UART1	<input type="checkbox"/> 115200	<input type="checkbox"/>												
UART2	<input type="checkbox"/> 115200	<input checked="" type="checkbox"/>												
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Identifier	Configuration/MSP	Serial Rx												
USB VCP	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>												
UART1	<input type="checkbox"/> 115200	<input type="checkbox"/>												
UART2	<input type="checkbox"/> 115200	<input type="checkbox"/>												
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Identifier	Configuration/MSP	Serial Rx												
USB VCP	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>												
UART1	<input type="checkbox"/> 115200	<input type="checkbox"/>												
UART2	<input type="checkbox"/> 115200	<input checked="" type="checkbox"/>												

#### Définition des broches BF

Pad / Trou	ÉPINGLE	TIM	Resource option
PPM	PA3	TIM5_CH4	
S1	PC6	TIM3_CH1	
S2	PC7	TIM8_CH2	
S3	PC8	TIM8_CH3	
S4	PC9	TIM8_CH4	
S5	PA15	TIM2_CH1	serial_tx 11, camera_control

S6	PA8	TIM1_CH1	serial_tx 11, camera_control
2812 LED Strip	PB6	TIM4_CH1	
S7	PB8	TIM4_CH3	LED_STRIP
TX4	PA0	TIM5_CH1	serial_tx 12 (BF3.2.3)
RX4	PA1	TIM5_CH2	serial_rx 12 (BF3.2.3)
TX2	PA2	TIM9_CH1	serial_tx 11 (BF3.2.3)
DAC	PA4		camera_control (BF3.3)

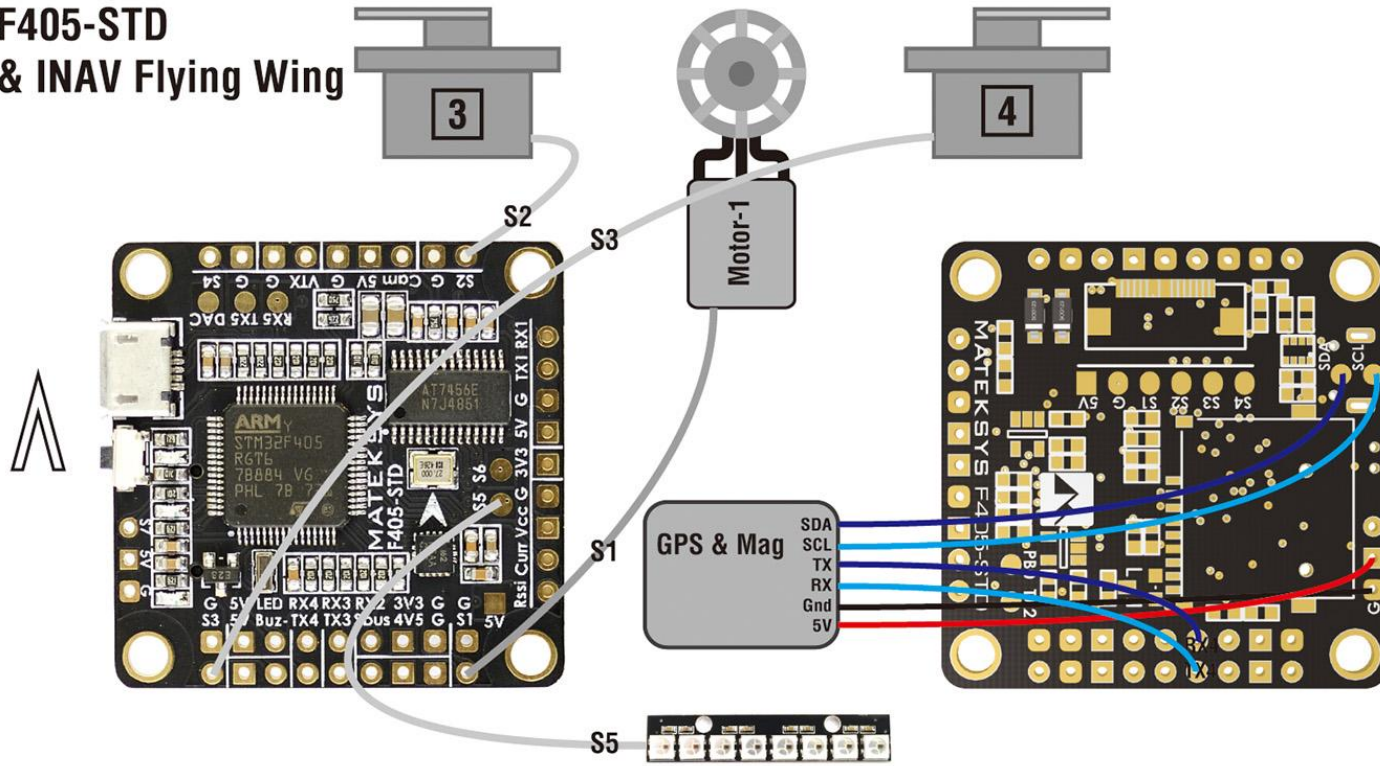
- S5 (PA15) , S6(PA8) or TX2 (PA2) can be resourced to softserial for Frsky SmartPort
- **2812LED\_Strip share I2C1\_SCL pad as default. either enable LED\_Strip, or enable Baro.**
- **2812LED can be resourced to S7 (PB8) if using Baro the same time with BF firmware**
- S5 (PA15) or S6 pad (PA8) can be resourced to Camera Control

#### CLI command

- resource motor 5 none
- resource serial\_tx 11 A15
- resource motor 6 none
- resource camera\_control A08
- resource motor 7 none
- resource led\_strip 1 B08
- save

Câblage INAV

### F405-STD & INAV Flying Wing



Mixer

Flying Wing



Servos

[DOCUMENTATION FOR INAV](#)

Change Direction in TX To Match

Name	MID	MIN	MAX	CH1	CH2	CH3	CH4	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	Direction and rate
Servo 0	1500	1000	2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rate: 100%
Servo 1	1500	1000	2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rate: 100%
Servo 2	1500	1000	2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rate: 100%
Servo 3 <b>S2</b>	1500	1000	2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rate: 100%
Servo 4 <b>S3</b>	1500	1000	2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rate: 100%
Servo 5	1500	1000	2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rate: 100%
Servo 6	1500	1000	2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rate: 100%
Servo 7	1500	1000	2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rate: 100%

### F405-STD & INAV Airplane

Mixer

Airplane



Servos

[DOCUMENTATION FOR INAV](#)

Change Direction in TX To Match

Name	MID	MIN	MAX	CH1	CH2	CH3	CH4	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	Direction and rate
Servo 0	1500	1000	2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rate: 100%
Servo 1	1500	1000	2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rate: 100%
Servo 2 <b>S2</b>	1500	1000	2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rate: 100%
Servo 3 <b>S3</b>	1500	1000	2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rate: 100%
Servo 4 <b>S4</b>	1500	1000	2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rate: 100%
Servo 5 <b>S6</b>	1500	1000	2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rate: 100%
Servo 6	1500	1000	2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rate: 100%
Servo 7	1500	1000	2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rate: 100%



## Définition des broches INAV

Pad/Hole	Pin	Inav	INav	INav	INav	INav
		Tricopter	Quad X	Hex X	Flying Wing	Airplane
PPM/RX2	PA3					
S1	PC6	servo-1	motor-1	motor-1	motor-1	motor-1
S2	PC7	motor-1	motor-2	motor-2	servo-3	servo-Elev
S3	PC8	motor-2	motor-3	motor-3	servo-4	servo-Aile
S4	PC9	motor-3	motor-4	motor-4		servo-Aile
S5	PA15	2812LED	2812LED	moteur 5	2812LED	2812LED
S6	PA8			moteur 6		servo-Rud
LED	PB6	/	/	/	/	/
S7	PB8				moteur 2	moteur
SDA / SCL		Mag / Baro	Mag / Baro	Mag / Baro	Mag / Baro	Mag / Baro

## Conseils

- **MATEKSYS FC Facebook Group**
- CLI "par défaut" après refocalisation
- **Des supports anti-vibrations en caoutchouc sont nécessaires pour éviter les problèmes de vibrations.**

- Si vous utilisez VTX 5V, les Pls alimentent le VTX via le pad 5V du FCHUB. Le câble ruban ne peut pas supporter un courant important.
- 2812LED\_Strip partage le pad I2C1\_SCL par défaut. soit activer LED\_Strip, soit activer Baro.
- 2812LED peut être alimenté en S7 (PB8) si vous utilisez Baro simultanément avec le micrologiciel BF
- Placez un morceau d'éponge sur le baromètre pour réduire l'impact du flux d'air.