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COREWING™

F405 WING V2

User Manual V2.1

Scan the QR code to access tutorials, technical support, and after-sales service.

The final interpretation right belongs to Coolwing Technology.

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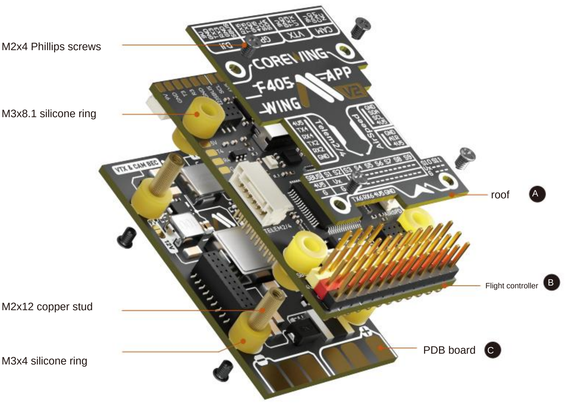
Specifications Overview

Product Name: Top	CoreWing F405 WING V2
Plate	CoreWing F405 WING V2 Top Plate
Flight Control Board	CoreWing F405 WING V2 Flight Controller
PDB board	CoreWing WING PDBy PLUS
USB expansion board	CoreWing Wireless USB Expansion Board PRO supports
Wireless parameter	
adjustment power indicator	support
Firmware	iNav/ArduPilot
supports power	3S-6S
input	52 (L) x 32 (W) x 17 (H) mm 40g (including
size and weight	Wireless USB Expansion Board PRO)

Part 1 - Overview

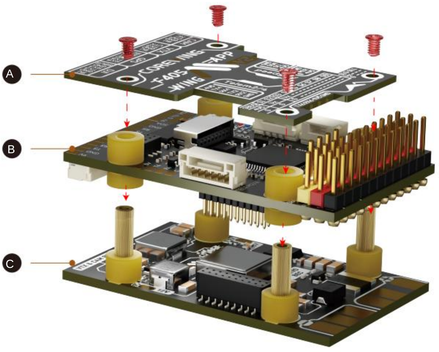
Assembly method

When installing the machine, please align the arrow with the direction of the machine head.



Installation sequence:

1. Assemble [illegible] boards, securing both boards firmly, ensuring alignment of the pin headers and sockets
2. [illegible]mble
3. Tighten the screws.



CoreWing F405 WING V2 vs. SpeedyBee F405 WING APP Comparison

category		CoreWing F405 WING V2		SpeedyBee F405 WING APP
Hardware or functional	Input voltage	10~28V(3~6S LiPo)		7~36V (2~6S LiPo)
	LED strip interface	Not supported		Supports LED strip connection interface
	LED strip solder pads	Equipped with LED pads, the light strip effects can be programmed and controlled via a ground station.		LED pads
	barometer	SPA06-003		SPL06-001
	Flight controller firmware (iNav / ArduPilot)	CoreWingF405WINGV2		SPEEDYBEEF405WING
	Image transmission power on/off function	support		Not supported
serial port	Wireless board serial port	Using USART1	DFU hijacking has been fixed; firmware upgrades can now be performed without unplugging external devices.	Using USART6
	Receiver serial port	Using USART6		Using USART1
	Image transmission serial port	Using USART3		Using UART5
	GPS serial port	Using UART5		Using USART3
Serial DMA support			USART1, USART6 (Expand for more high-speed peripherals)	USART1 only
PWM interface	S1-S10		Supports PWM/Dshot (DMA)	Supports PWM/Dshot (DMA)
	S11		Supports PWM	Supports PWM/Dshot (DMA)
	S12 (LED interface)		Supports PWM	Supports PWM/Dshot (DMA)
PDB board	⚠ The power supply sequence of the PDB board for the CoreWing F405 WING V2 and the SpeedyBee F405 WING APP is different, and they are not interchangeable!			
	Flight controller BEC		Continuous 4A, peak 5A	Continuous 2.4 A, peak 3 A
	Image transmission and camera BEC		Continuous 2A, peak 3A	Continuous A: 1.8 A, peak A: 2.3 A
	BEC Servo		Continuous 8A, peak 14A	Sustained 4.5 A, peak 5.5 A
Wireless board	Wireless board form	USB expansion board		roof
	Wireless board parameter tuning performance	Wireless parameter adjustment can be performed within 50m.		Wireless parameter adjustment is possible within 10-30m.
	supported modes	BLE (green light), WiFi-AP (white light), wireless board WiFi-STA (Purple Light)		BLE (green light), WiFi-AP (white light), Bluetooth SPP (blue light)
	wireless board supported functions	Firmware upgrade, automatic RF shutdown, customizable name and password, battery indicator, OTG mode.		Power indicator light, control switching LED light strip display effect

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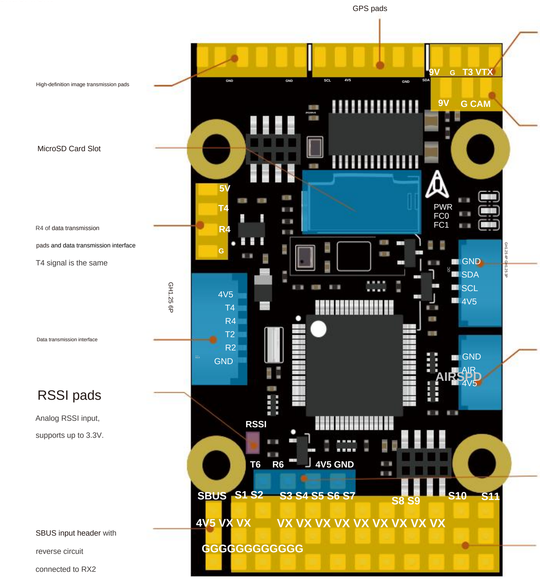
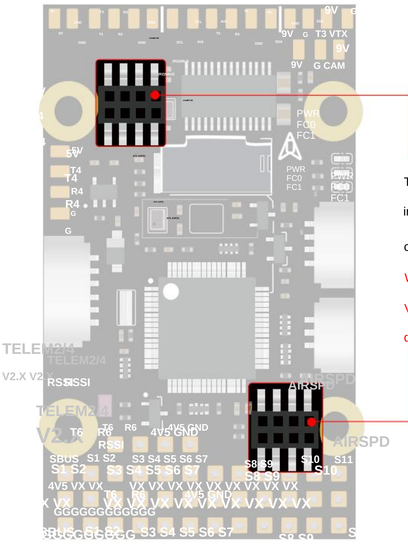
Part 2 - Hardware Description

Interface layout diagram

Flight control front

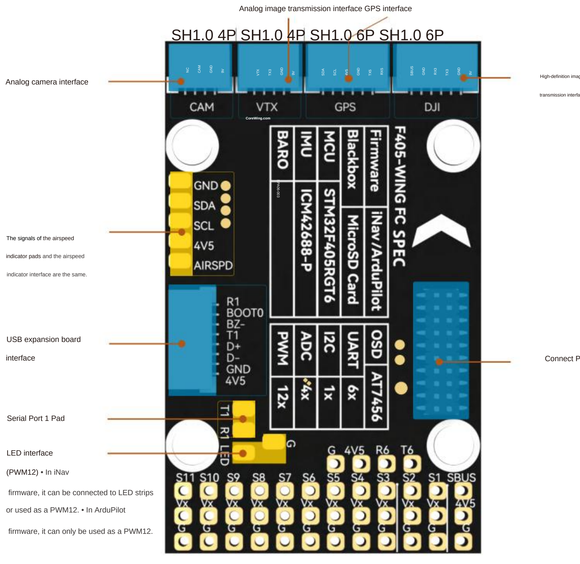


Precautions:

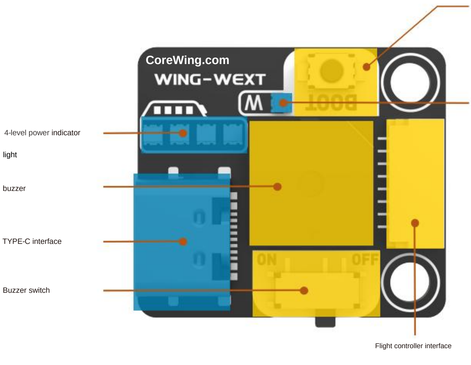


The flight controller board has a reserved expansion interface for the top board, supporting future connection to other top boards. Note: Do not connect to the SpeedyBee F405 WING APP wireless top board. The pin definitions of the CoreWing F405 WING V2 flight controller and the SpeedyBee F405 WING APP wireless top board are different; connecting them will cause the flight controller to burn out!

Flight control reverse side



Wireless USB Expansion Board PRO Front



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PDB front

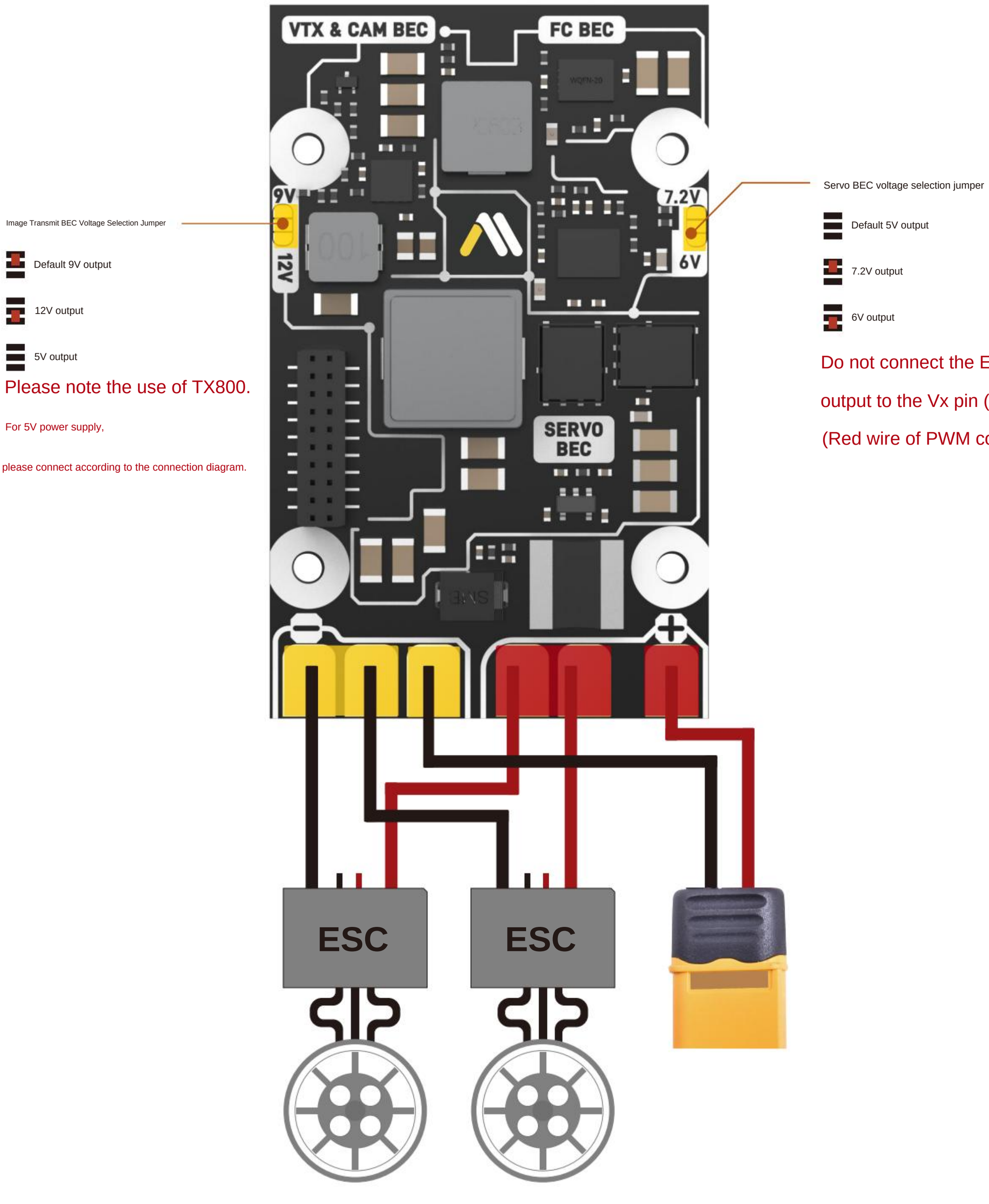


Image Transmit BEC Voltage Selection Jumper

Default 9V output

12V output

5V output

Please note the use of TX800.

For 5V power supply,

please connect according to the connection diagram.

Servo BEC voltage selection jumper

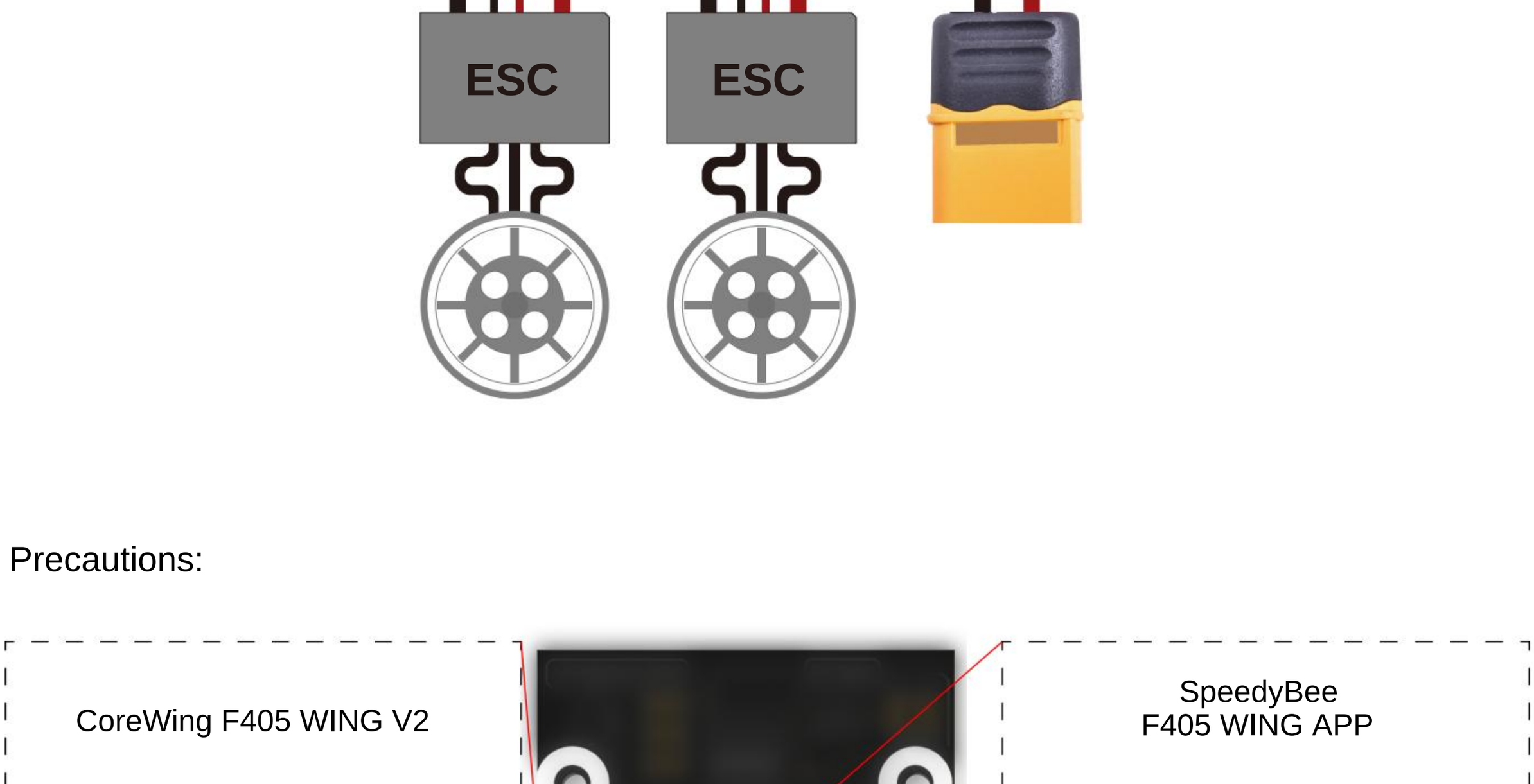
Default 5V output

7.2V output

6V output

Do not connect the ESC's BEC output to the Vx pin (ESC). (Red wire of PWM connector)

Precautions:



The PDB pin definitions for the CoreWing F405 WING V2 and the SpeedyBee F405 WING APP are different. The PDB boards cannot be interchanged; otherwise, the flight controller will burn out!

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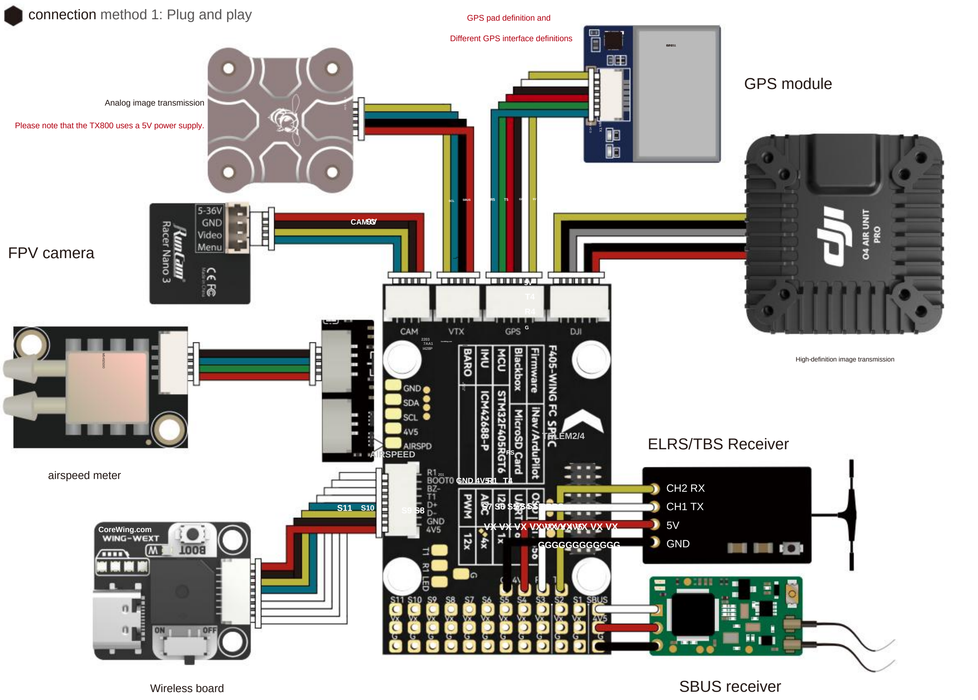
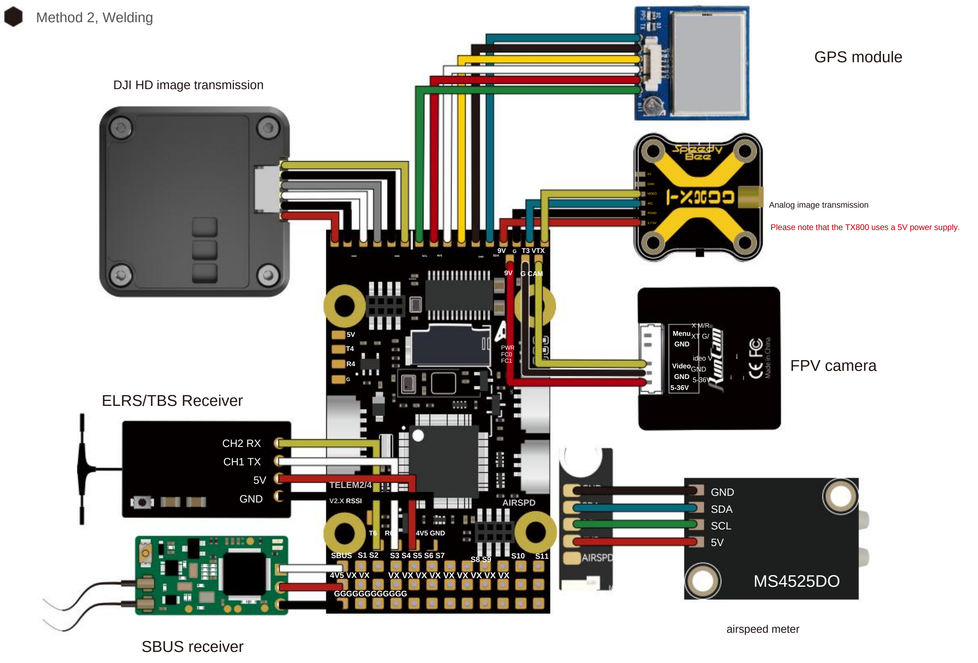
Flight controller peripheral

connection method 1: Plug and play

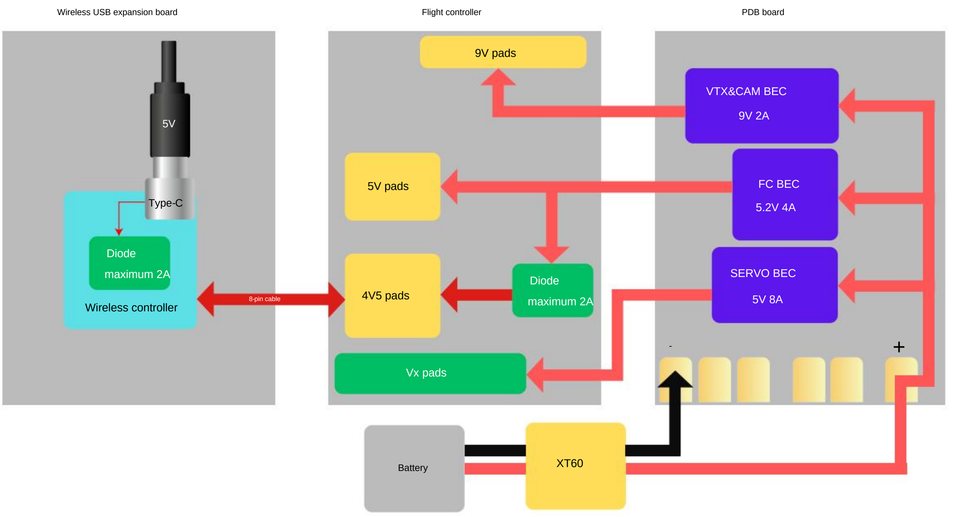


Method 2, Welding



Power supply logic description

The power supply logic of the entire board is shown in the following figure:



solder pads	Power source	Voltage	Power supply instructions
9V pads	VTX&CAM BEC	Switchable 5V/9V/12V	Connect camera and image transmission device
Vx pads	Servo BEC	Switchable 5V/6V/7.2V	⚠ Do not connect the red wire of the ESC BEC to the Vx header; this will burn out the ESC or BEC.
5V pads	FC BEC	Fixed 5.2V	Used for powering flight controllers and low-voltage peripherals
4V5 pads	FC BEC (via diode)	4.5-5.0V	Used for powering wireless boards and low-voltage peripherals

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Part 3 - Firmware Upgrade and App Connection

For detailed information on the Wireless USB Expansion Board Pro, please refer

to the instruction manual: https://docs.corewing.com/pdfs/USB_Extender_PRO_CN_V2.1_2025-12-12.pdf

SpeedyBee APP connection supports iNav/ArduPilot

firmware connection to the APP: Observe the color of the wireless status

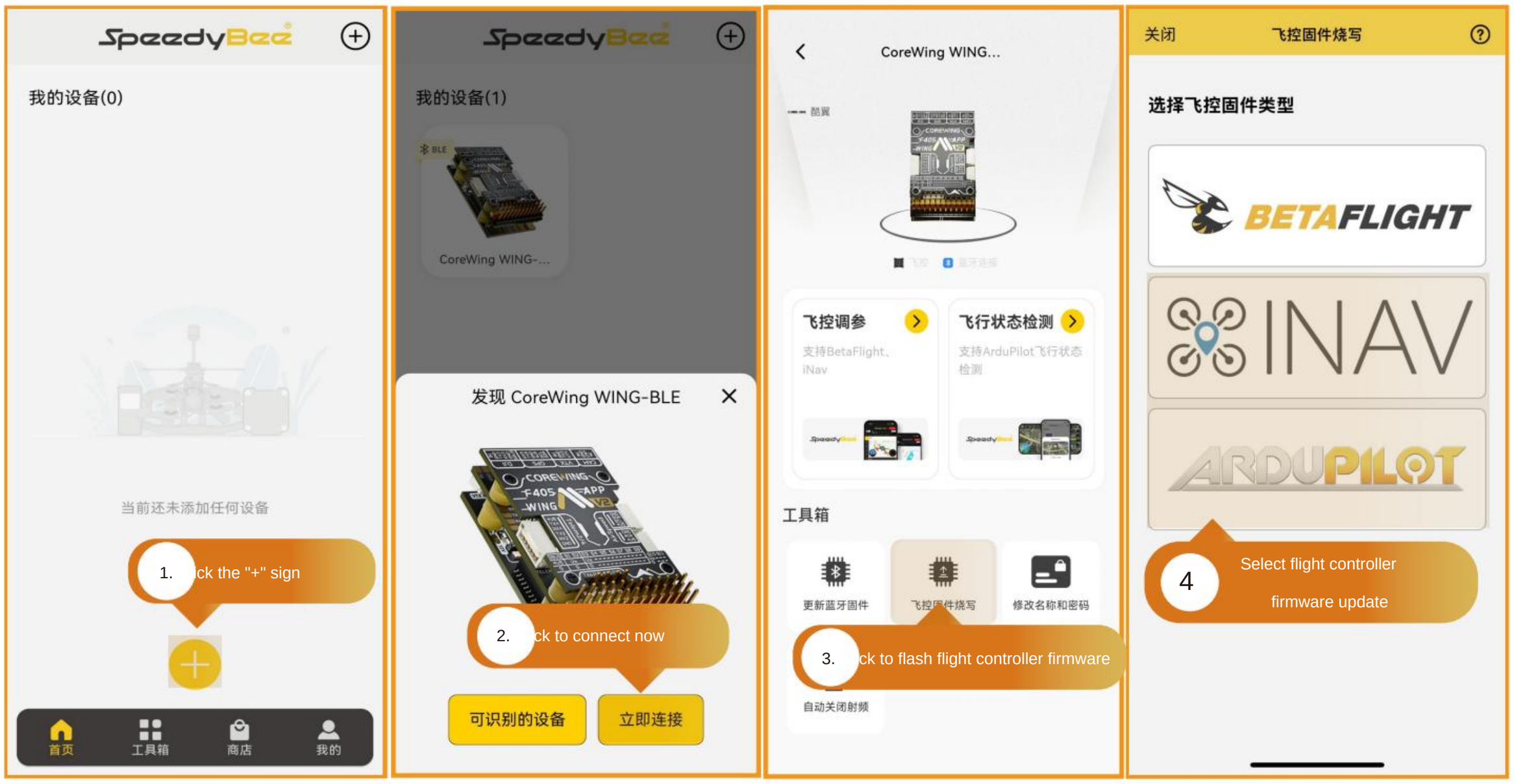
indicator light. If it is BLE (slowly flashing green), open the APP and follow the steps to connect. Observe the color of the wireless status indicator

light. If it is WiFi-AP (slowly flashing white), connect to "CoreWing WING-WIFI", open the APP, and follow the steps to connect.

Firmware update

Supports updating flight controller firmware via the SpeedyBee APP:

Enter the toolbox, select flight controller firmware flashing, and follow the steps to update the firmware.



Computer firmware update steps: ÿ

Press and hold the BOOT button on the flight controller, then connect the flight controller to the

computer using a USB cable; ÿ Open the iNav ground station on the computer, enter the "Firmware Flashing Tool" page, select the flight controller model "CoreWingF405WINGV2", and then flash the firmware.
Item.

ÿ To flash the ArduPilot firmware, follow the same steps as above, select "Load firmware from local computer", and then flash the firmware.

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Part 4 - Parameter Table

CoreWing F405 WING V2 Flight Controller

Main controller	STM32F405ÿ168MHz , 1MB Flash
IMU (gyroscope and accelerometer)	ICM-42688-P
barometer	SPA06-003
OSD chip	AT7456E
Black box storage	Micro SD cards support SDSC or SDHC types, but not SDXC. Capacities range from 4-32GB, and card formats are FAT16 or FAT32. iNav can only recognize up to 4GB of storage; any additional storage cannot be recognized or used.
UART serial port	6 serial ports (USART1 - connected to the wireless board, USART2, USART3, UART4, UART5, ...). USART6)
I2C interface	1x for compasses, digital airspeed gauges
ADC interface	4x (Voltage, Current, RSSI, Analog Airspeed)
PWM interface	12x (11 leads to the header pins + 1 lead to the LED signal)
ELRS/CRSF Receiver	Supports connection to USART6
SBUS input	Onboard SBUS inverting circuit (USART2-RX)
Flight controller status lights	3 LEDs (blue and green flight control lights and 3.3V power indicator)
RSSI input	Supported, marked as RSSI pad
Supported firmware	iNav:CoreWing F405 WING V2 Default Factory Firmware ArduPilot: CoreWing F405 WING V2

CoreWing WING PDBÿ PLUS

Input voltage	10~28V(3~6S LiPo)
Voltage detection	Connect to the flight controller VBAT, voltage divider ratio 10K:100K
Current detection	Continuous 90A, peak 215A connected to flight controller (Scale 158 in iNav, 64 A/V in ArduPilot).
TVS peak suppression diode	have
Flight controller BEC	DC 5.2V +/-0.1V, continuous 4A, peak 5A. Powers vehicle controller, receiver, GPS, airspeed indicator, data transmission module, etc.
Image transmission and camera BEC	DC 9V+/-0.1V, continuous 2A, peak 3A. Can be adjusted to 5V/9V/12V via jumper pads to power digital video transmission, analog video transmission, and cameras.
BEC Servo	DC 5V ± 0.1V, continuous 8A, peak 14A. Can be adjusted to 5V/6V/7.2V via jumper pads to power servos.

CoreWing Wireless USB Expansion Board PRO

Wireless parameter tuning (BOOT) (Press and hold the button for 6 seconds to switch modes)	BLE mode, connecting to CoreWing APP, SpeedyBee APP, and iNav Configurator.
	WiFi-AP mode, connect to the SpeedyBee APP and iNav Configurator. MissionPlannerÿQGroundControl APPÿ
	WiFi-STA mode, connecting to iNav Configurator and MissionPlanner. QGroundControl APP, etc.
Onboard battery power indicator	4 x RGB LEDs indicate battery level by turning them on and off.

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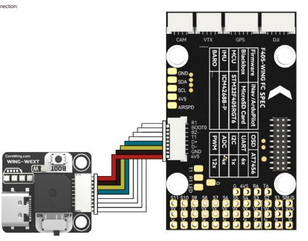
Wireless parameter tuning settings

Hardware connection:



iNav parameter settings

The default parameters allow for direct connection, if the wireless connection fails and the power indicator changes to a running light, please check this setting.

ArduPilot parameter settings: Default

parameters allow for direct connection. If wireless connection fails and the power indicator changes to a running light, please enter the MissionPlanner parameter settings, check the following parameters, and manually restart.

iNav parameter settings

ArduPilot parameter settings

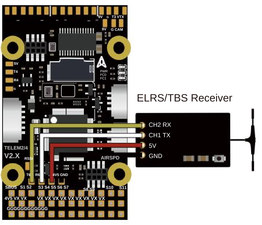
SERIAL1_BAUD	115	Set the default baud rate for wireless connection to 115200.
SERIAL1_OPTIONS 0		Set the serial port 1 working mode to default.
SERIAL1_PROTOCOL 2		Set the protocol of serial port 1 to Mavlink2.

Receiver settings

ELRS/TBS Receiver

Hardware connection:

Solder the receiver using a DuPont 4P single-ended connector and insert the DuPont connector into the corresponding pin header.



iNav parameter settings

The default parameters are recognized without needing to be set.

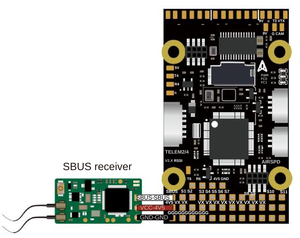
ArduPilot parameter settings

The default parameters are recognized without needing to be set.

SBUS receiver

Hardware connection:

Use DuPont 3P dual male connector cable and insert it into the SBUS input header.



iNav parameter settings

y On the port page, turn off the serial digital receiver for UART6 and turn on the serial digital receiver for UART2. Save and restart.

y On the receiver page, the CRSF protocol has been changed.

SBUS, save and restart.

ArduPilot parameter settings

The default parameters are recognized without needing to be set.

iNav parameter settings

Machine Tran

FPV receiver

Pass parameters

ArduPilot parameter settings

GPS settings

Pass parameters

ArduPilot parameter settings

Set parameter settings

Set parameter settings

ArduPilot parameter settings

Set parameter settings

ArduPilot parameter settings

Set parameter settings

ArduPilot parameter settings

CPPM (pinout/PPM type	Sky Eye Model	Port page Corresponding serial port menu protocol	OSD page Video format
Ez Flight Goggles 3 Ez Flight Goggles N3	Ez2-D4	UART3	
Ez2	Ez2-D3 / Ez2-D4	UART3	
	Ez2 AI Unit V1	UART3	MF4/COMP47
	RunCam Link/Caddx Vista	UART3	
RunCam WiFi Link2 -OpenPC		UART3	
EDGE T3		UART3	Set to MSP port /
Ez2 V2	Ez2-D3	UART3	MSP DisplayPort (peripheral)	MF4/COMP47
	Ez2 AI Unit V1	UART3	DJI FPV VTX (Tentative)	-
	RunCam Link/Caddx Vista	UART3	MSP DisplayPort (peripheral)	-
Caddx WS Avatar	Caddx WS Avatar	UART3	MSP DisplayPort (peripheral)	AVATAR
HDzero	HDzero	UART3	MSP DisplayPort (peripheral)	HDZERO

When supports DJI FPV Goggles V2 (DJI FPV), Ruo VTX, Ruo VTX HD, Walksnail Avatar, you can refer to the DJI FPV, WSA Video Format and Ruo Video Format as a reference.

ArduPilot parameter settings

FPV glasses/OSD/VTX model	Sky Eye Model	Receiver settings		
DJI Flight Goggles 3 DJI Flight Goggles N3 Ez2 G2 RunCam WiFi Link2 -OpenPC Ez2 V2 Caddx WS Avatar HDzero EDGE T3 Ez2 V2	Ez2-D4	SERIAL5_BAUD	115	Set the default baud rate of the MSP. 115K to 115200.
	Ez2-D3 / Ez2-D4 Ez2 AI Unit V1 RunCam Link/Caddx Vista	SERIAL5_OPTIONS	0	Set the serial port 2 working mode to default.
		SERIAL5_PROTOCOL	42	Configure serial port 2 protocol to MSP mode.
		MSP_OPTIONS	1	Set to use DisplayPort text rendering mode.
		OSD_TYPE	1	Set to use OSD mode. MSP OSD.
	Caddx WS Avatar	SERIAL5_BAUD	115	Set the baud rate of serial port 3 to 115200.
	HDzero	SERIAL5_PROTOCOL	2	Set the default baud rate of the MSP. 115K to 115200.
	Ez2 AI Unit V1 RunCam Link/Caddx Vista	SERIAL5_BAUD	115	Set the default baud rate of the MSP. 115K to 115200.
		SERIAL5_OPTIONS	0	Set the serial port 2 working mode to default.
		SERIAL5_PROTOCOL	33	Set the serial port 2 protocol to DJI FPV.
		MSP_OPTIONS	1	Set the OSD mode to MSP.
		OSD_TYPE	1	Set to use OSD mode. MSP OSD.

For more detailed settings, please refer

to the following link: https://arduplot.org/pixel/docs/common-msp-osd-overview-4-2.html

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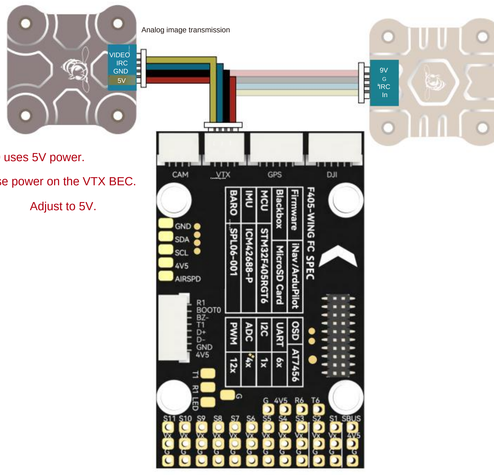
Hardware Connection Settings

Hardware connection:

Use the VTX cable to connect the SpeedyBee TX800/TX ULTRA analog video transmitter.



*TX800 uses 5V power.

Please power on the VTX BEC.

Adjust to 5V.

1. iNav parameter settings

ý On the port page, select peripheral device for UART3.

Select the IRC Tramp option, save, and restart.

ý On the configuration page, scroll down to the image transmission options.

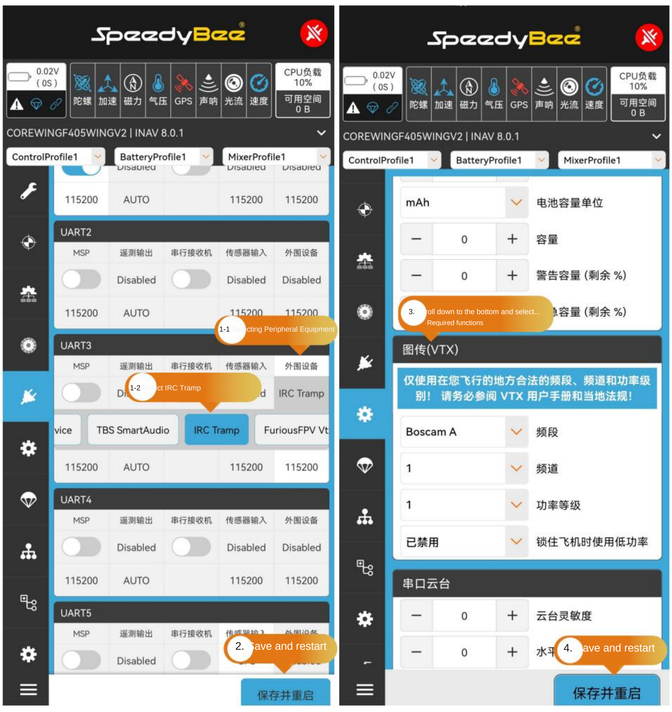
Select the desired features, save, and restart.

2. ArduPilot parameter settings

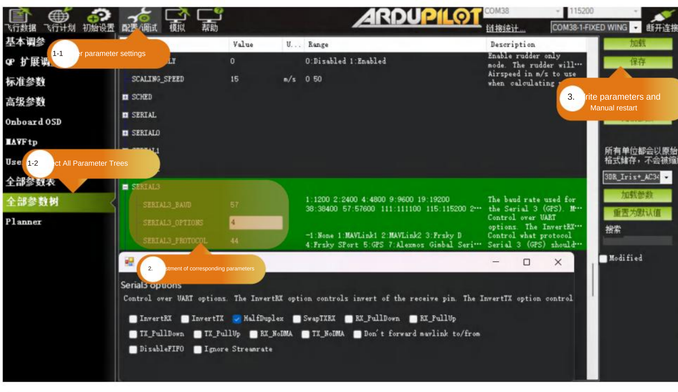
Enter the MissionPlanner parameter settings.

Set the following parameters and restart manually.

iNav parameter settings



ArduPilot parameter settings



SERIAL3_BAUD	57	Set the default IRC baud rate to 57600.
SERIAL3_OPTIONS	4	Set the serial port 3 working mode to half-duplex.
SERIAL3_PROTOCOL 44		Set the serial port 3 protocol to IRC Tramp
VTX_ENABLE	1	Enable the analog image transmission function. A restart is required after configuration.
VTX_OPTIONS	10	Enable Pitmode to prevent overheating during image transmission. ýPitmode until armed and Unlockedý
VTX_MAX_POWER 800		Maximum power, set according to the image transmission system used.

If the video transmission supports SmartAudio, the following settings are required.

SERIAL3_BAUD	4	Set the default baud rate for SmartAudio to 4800.
SERIAL3_OPTIONS	4	Set the serial port 3 working mode to half-duplex.
SERIAL3_PROTOCOL 37		Set the serial port 3 protocol to SmartAudio

For more detailed settings, please refer to the following link:

https://ardupilot.org/copter/docs/common-vtx.html

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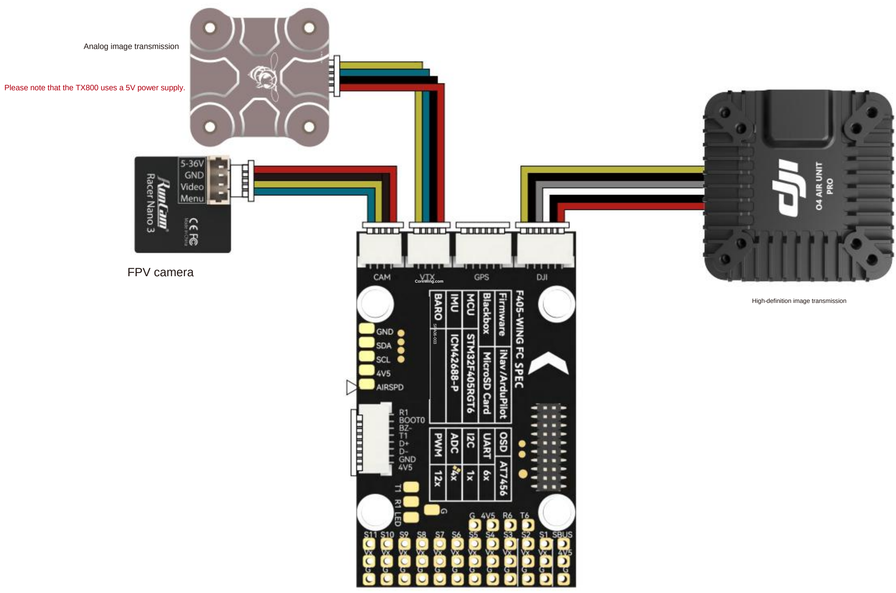
Image transmission power outage switching function

Hardware connection: As

shown in the figure below, connect the image transmission and the camera respectively.



1 In the iNav parameter settings ÿ mode

page, scroll down to the User Defined 1 option and click Add Range.

ÿ Select the control channel for switching cameras, and drag the

blue progress bar to select the recognition area. (The white area indicates that

image transmission is enabled, and the blue

progress bar indicates that image transmission is disabled.)

ÿ Click Save

2 ArduPilot parameter settings

Enter the MissionPlanner parameter settings, set the

following parameters, and manually restart.

Configure the power on/off pins of the image transmission to function

as relays: RELAY1_FUNCTION = 1;

RELAY1_PIN = 81; RC

X_OPTION = 28; When the PWM

value of the switch is below 1200, the image transmission is turned on;

when it is above 1800, the image transmission is turned off.

ArduPilot parameter settings

RELAY1_FUNCTION	1	To enable the function of relay 1, you need to power off and restart the flight controller after setting it.
RELAY1_PIN	81	Configure relay function
RC X_OPTION	28	Configure the control switch channel, where X is the channel you select. For example, to use 7-channel control, RC7_OPTION=28

*The parameters above are for ArduPilot 4.5.7. Parameters may vary depending on the firmware.

***If correctly configured, toggle the channel switch to...**

The MissionPlanner ground station flight data message interface

displays the following operation information:

The message shows	state
RELAY1 LOW	Enable image transmission
RELAY1 MIDDLE	Turn off image transmission
RELAY1 HIGH	Turn off image transmission

This message appears in ArduPilot firmware version 4.4.x, but not in

ArduPilot firmware version 4.5.x. It is recommended to check whether the image

transmission is successfully powered on and off to determine if the settings are successful.

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Part 6 : Pin Mapping

iNav pin mapping

UART			
USB		USB	
TX1 RX1	5V tolerant I/O	UART1	Wireless USB Expansion Board PRO
TX2 RX2 SBUS	5V tolerant I/O	SBUS pads	SBUS receiver SBUS pad = RX2 with reverse circuit
		TX2	SmartPort telemetry, enable Softserial_Tx2
TX3 RX3	5V tolerant I/O	UART3	MSP Displayport/DJ OSD/VTX
TX4 RX4	5V tolerant I/O	UART4	Custom
TX5 RX5	5V tolerant I/O	UART5	GPS
TX6 RX6	5V tolerant I/O	UART6	ELRS/TBS Receiver

PWM		TIMER	iNav Plane	iNav MultiRotor
S1	5V tolerant I/O	TIM4_CH2	Motor	Motor
S2	5V tolerant I/O	TIM4_CH1	Motor	Motor
S3	5V tolerant I/O	TIM3_CH3	Servo	Motor
S4	5V tolerant I/O	TIM3_CH4	Servo	Motor
S5	5V tolerant I/O	TIM8_CH3	Servo	Motor
S6	5V tolerant I/O	TIM8_CH4	Servo	Motor
S7	5V tolerant I/O	TIM8_CH2N	Servo	Servo
S8	5V tolerant I/O	TIM2_CH1	Servo	Servo
S9	5V tolerant I/O	TIM2_CH3	Servo	Servo
S10	5V tolerant I/O	TIM2_CH4	Servo	Servo
S11	5V tolerant I/O	TIM12_CH2	Servo	Servo
S12/LED	5V tolerant I/O	TIM1_CH1	LED	LED

***In the iNav firmware, a maximum of 32 WS2812 chips can be controlled by default.**

ADC			
Voltage	10K:100K voltage divider ratio 0~36V	Voltage ADC ADC_CHANNEL_1	voltage scale 1100
Current	0~3.3V	ADC of ammeter ADC_CHANNEL_2	Current scale 158
Simulated airspeed	10K:10K voltage divider ratio 0~6.6V	Airspeed ADC ADC_CHANNEL_3	Analog Airspeed
Simulated RSSI	0~3.3V	RSSI ADC ADC_CHANNEL_4	Analog RSSI

I2C			
I2C1	5V tolerant I/O	Onboard barometer	SPA06-003 (identified as DPS310 by iNav8.0.1)
		compass	QMC5883 / HMC5883 / MAG3110 / LIS3MDL
		Digital airspeed meter	MS4525
		YOU ARE	0.96y

ArduPilot pin mapping

USB	USB	SERIAL0	Console
TX1 RX1	USART1 (with DMA)	SERIES1	Wireless USB Expansion Board Pro
TX2 RX2 SBUS	SBUS pads	BRD_ALT_CONFIG 0 Default	SBUS receiver SBUS pad = RX2 with reverse circuit
	RX2		IBUS/DSM/PPM
	USART2	BRD_ALT_CONFIG 1 SERIES2	Custom
TX3 RX3	USART3	SERIES3	MSP Displayport/DJI OSD/VTX
TX4 RX4	UART4	SERIAL4	Custom
TX5 RX5	UART5	SERIAL5	GPS1
TX6 RX6	USART6 (with DMA)	SERIAL6	ELRS/TBS Receiver Serial protocol input

***If using a higher serial port speed, such as 921600, please use USART1 (UART1) or USART6 (UART6).**

PWM		timer		
S1	PWM1 GPIO50	TIM4_CH2	PWM/DShot(DMA)	Group1
S2	PWM2 GPIO51	TIM4_CH1	PWM/DShot(DMA)	
S3	PWM3 GPIO52	TIM3_CH3	PWM/DShot(DMA)	Group2
S4	PWM4 GPIO53	TIM3_CH4	PWM/DShot(DMA)	
S5	PWM5 GPIO54	TIM8_CH3	PWM/DShot(DMA)	Group3
S6	PWM6 GPIO55	TIM8_CH4	PWM/DShot(DMA)	
S7	PWM7 GPIO56	TIM8_CH2N	PWM/DShot(DMA)	
S8	PWM8 GPIO57	TIM2_CH1	PWM/DShot(DMA)	Group4
S9	PWM9 GPIO58	TIM2_CH3	PWM/DShot(DMA)	
S10	PWM10 GPIO59	TIM2_CH4	PWM/DShot(DMA)	
S11	PWM11 GPIO60	TIM1_CH3N	PWM	Group5
S12	PWM12 GPIO61	TIM1_CH1	PWM	

***S1~S10 outputs support DShot and PWM. However, within the same timer group, if one channel enables DShot, all channels in the same group will also enable it. DShot. We offer combinations like 2+2+3+3+2 to facilitate the setup of different types of aircraft.**

For example, in a single-motor fixed-wing aircraft, if S3 is activated by DShot, S4 will also be activated, and it is not possible to activate a single channel DShot independently.

For example, in a dual-motor fixed wing, the motors are set in channels S3 and S4. DShot is enabled, and the remaining servo channels use the PWM protocol.

In the Y3 vertical fixed wing, three motors are set to enable DShot on channels S5, S6, and S7, while the remaining servo channels use the PWM protocol.

ADC				
Voltage	10K:100K voltage divider ratio 0~36V	Battery voltage	BATT_VOLT_PIN	10
			BATT_VOLT_MULT	11.05
ammeter	0~3.3V	Current sense	BATT_CURR_PIN	11
			BATT_AMP_PERVLT	64
Simulated airspeed	0~6.6V	Analog Airspeed	ARSPD_PIN	15
			ARSPD_TYPE	2
Simulated RSSI	0~3.3V	Analog RSSI	RSSI_ANA_PIN	14
			RSSI_TYPE	2

I2C				
I2C1	5V tolerant I/O	Onboard barometer	SPA06-003 (AP4.5.7 identifies it as SPL06)	
		compass	COMPASS_AUTODEC	
		Digital airspeed meter	ARSPD_BUS	0
		MS4525	ARSPD_TYPE	1
		ASP5033	ARSPD_TYPE	15

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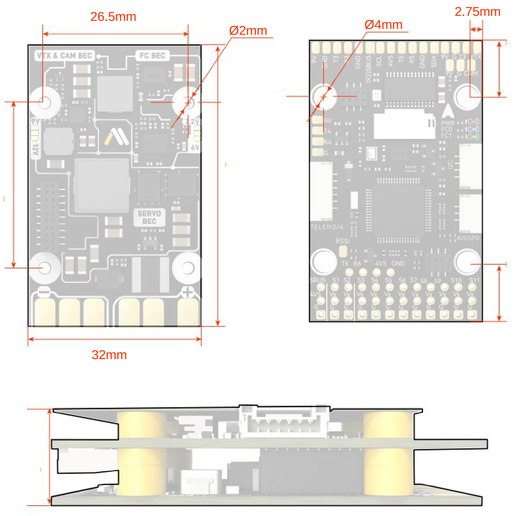
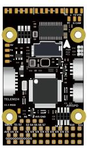
Part 7 - Packaging

size



 CoreWing F405 WING V2 Flight Controller x1	CoreWing WING PDB Board PLUS x1	CoreWing F405 WING V2 Top Plate x1	CoreWing Wireless USB Expansion Board PRO x1
90 Degree pin PWM bent pin header (3x12) x1 *Solder version without bent pins	Straight pins (1x12) x3	ELRS header (1x4) x1	M2x12 copper studs x5
M2x4 Phillips screws x10	M3x4 silicone rings x5	USB extension cable	VTX cable
GPS connection cable	DJI connection cable		
CAM connection cable	DuPont 4P single-ended connector cable		
capacitance	Pin header double-sided adhesive pad		

Part 8 - Warranty Information

I. Warranty Service (within 30 days)

1. Warranty Coverage: Flight controller motherboard, PDB, and expansion board are covered within 30 days from the date of receipt.

For performance failures not caused by human error or issues arising from official firmware, free warranty is available.

2. Not covered by warranty: Consumables such as cables; Purchased through unofficial channels;

Damage caused by water ingress, impact, reversed connections, unauthorized disassembly or flashing of the firmware.

II. Return and Exchange Service

• 7-day no-reason return policy: Products can be returned within 7 days of receipt if they are unopened and in good condition (returns are not supported after opening).

Returns are possible. Please contact the store where you purchased the item for processing.

• 30-day quality problem replacement: Within 30 days of signing for the goods, if a non-human-caused quality problem occurs, it will be replaced free of charge after inspection and confirmation.

III. After-sales process

1. Contact customer service first: Contact customer service through the Coolwing Technology WeChat official account and explain the situation.

2. Submission and return: Submit a work order as instructed (proof of purchase and proof of problem are required) and return the product.

3. Inspection and handling: Upon receipt, we will complete the inspection, repair or replacement within 14 working days and return it to you.

4. Shipping Costs: If the issue is confirmed to be a product quality problem, we will bear the round-trip shipping costs.

For non-quality issues, you will need to bear the round-trip shipping costs yourself.

IV. Warm Reminder

• Please purchase through official authorized channels and keep your purchase receipt.

• Please read the instruction manual before use and operate correctly.

• The final interpretation of the warranty information rests with Zhuhai Coolwing Technology Co., Ltd.

Contact Us

• After-sales service hotline: 15018866740

• WeChat Official Account: Coolwing Technology

• Submit a support ticket (we recommend contacting customer service first): https://xmdwz.cn/6m2egx