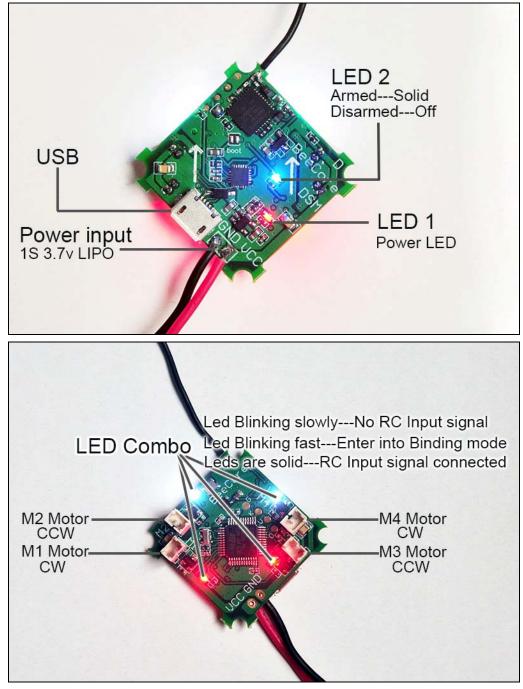
BEECORE DSM2 F3_EVO_Brushed ACRO Flight Control Board quick user guide

This board is designed to work with Inductrix / BeeDuctrix / Tiny Whoop / Eachine E010, just replace the current board with our new BEECORE main board and experience the next level of flight control.

1. Specification:

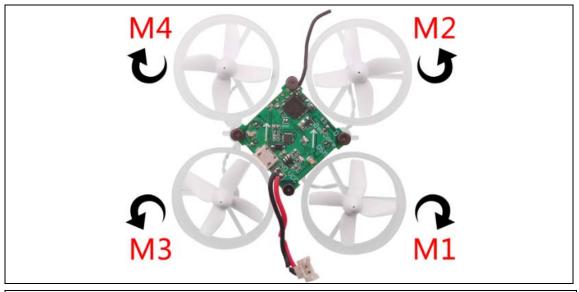
STM32 F303 processor Six-Axis: MPU6500 Size: 2mm x 26mm Weight: 3 grams Work voltage: 3.7v-5v / 1S Lipo battery input Receiver: 6CH DSM2 protocol PPM output Firmware Version: Cleanflight 1.13.0

2. Connector and LED Definition:



3. Installation and Connection diagram:

Mixer		ESC/Motor Features
	Quad X	MOTOR_STOP Do not spin motors when armed
74 2	7	ONESHOT125 ONESHOT ESC support
	9	Disarm motors regardless of throttle value (When arming via AUX channel)
		5 Sisarm motors after set delay(Seconds) (Requires MOTOR_STOP feature)
(,3) (1		1150 🗘 Minimum Throttle
	y l	2000 🗘 Maximum Throttle
		1000 🗘 Minimum Command



Please pay attention to the motor sequence of Inductrix main board , it's different from BEECORE, Install the motor according to the diagram above.

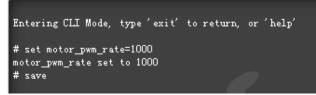
4. Cleanflight / Betaflight configuration:

All the configuration was set up before shipping, if you need to flash firmware and select Full chip erase, you should reconfigure for the BEECORE Flight controller board according to the bellowing diagram.

Please unplug the motor from the BEECORE when you need to flash firmware and "Full chip erase", otherwise it will can't connect to the Clenflight configurator.

Reconfigure steps:

1. Cleanflight: Go to the CLI tab, type "Set motor_pwm_rate=1000", then enter save



Betaflight: Go to Configure Tab and set ESC/Motor protocol to BRUSHED

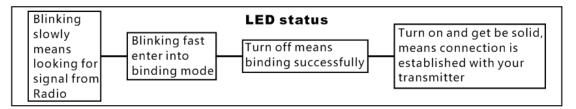
BRUSHED .	ESC/Motor p	rotocol
Motor F	PWM speed Sep	arated from PID speed
	STOP	Don't spin the motors when armed

*This step is in order to avoid motor auto-spinning when connect the battery

2. Ports and receiver mode sets like the bellowing diagram

orts					DO	CUMENTATION FOR 1.1					
			n the flight controller firmware detect rial port unless you know what you ar			ation if you do.					
dentifier	Data		Logging	Telemetry	RX	GPS					
USB VCP	MSP	115200 🔻	Blackbox 115200 V	Disabled v AUTO v	Serial RX	57600 •					
UART1	MSP	115200 🔻	Blackbox 115200 V	Disabled v AUTO v	Serial RX	57600 •					
UART2	MSP	115200 🔻	Blackbox 115200 V	Disabled v AUTO v	Serial RX	57600 •					
JART3	MSP	115200 🔻	Blackbox 115200 V	Disabled v AUTO v	Serial RX	57600 •					
Receiver N	lode		0	Serial Receiver Provider							
RX_PP	M	PPM RX input		Note: Remember to configure a Serial Port (via Ports tab) and choose a							
RX_SE	RIAL	Serial-based re	eceiver (SPEKSAT, SBUS, SUMD)	Serial Receiver Provider when using RX_SERIAL feature.							
RX_PA	RALLEL_PWM	PWM RX input	(one wire per channel)	SPEKTRUM1024 SPEKTRUM2048							
RX_MS	SP	MSP RX input	(control via MSP port)	SBUS SUMD SUMH							
				SRXL (XBUS_MODE_B) XBUS MODE B RJ01							

3. Binding Procedure: Power for the BEECORE, waiting the LED Combo (2 Red and 2 White) blinking fast, this means the BEECORE is in binding mode, then turn on your Radio and enter into binding mode, the LED Combo (2 Red and 2 White) will turning off and then get to be solid if binding successfully. Please repeat the above operation if binding not success.



4. The default receiver channel map is TAER1234, please ensure your transmitter is matched with it, otherwise it can't be armed.

Channel Map	RSSI Channel
TAER1234	▼ Disabled ▼

5. The Default Arm/Disarm switch is AUX1(Channel 5),and you can also customize it with Cleanflight Configurator or Betaflight Configurator.

ARM	AUX 1 🔻														0
Add Range	Min: 1450 Max: 2100	 900	' ' 1000	1	' 1200	1 1	1400	 1500	1600	1	' ' 1800	6	' 2000	2100	
ANGLE	AUX 1 🔻														0
Add Range	Min: 1175 Max: 2100	 900	' ' 1000	5	1200	5 3	1400	 1500	1600	1	' ' 1800	1	' 2000	2100	

6. Toggle the AUX1 Switch and the blue LED on the BEECORE will get be solid, this indicate the motor was armed. Be careful and enjoy your flight now!