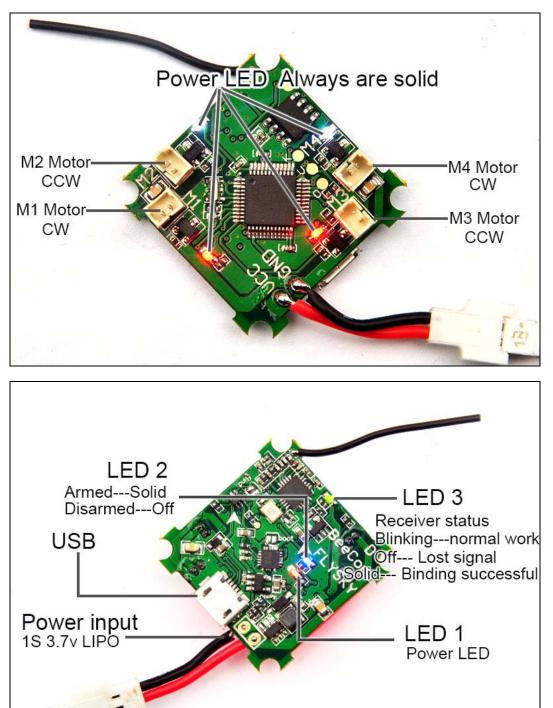
# BEECORE FLYSKY F3\_EVO\_Brushed ACRO Flight Control Board quick user guide

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:

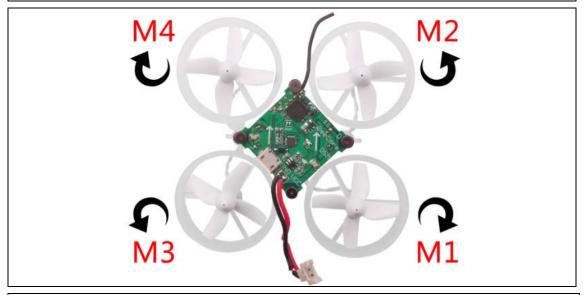
STM32 F303 processor Six-Axis: MPU6500 Size: 2mm x 26mm Weight: 3 grams Work voltage: 3.7v-5v / 1S Lipo battery input Receiver: 6CH Flysky protocol PPM output AFHDS Mode Firmware Version: Cleanflight 1.13.0

## 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 original Inductrix main board, it's different from BEECORE, Install the motor according to the diagram above.

### 4. Cleanflight / Betaflight configuration:

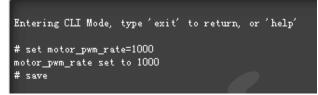
All the configuration was set up before shipping, if you need to flash firmware and select Full chip erase, you should reconfigure for the BEECORE Flight controller board according to the bellowing diagram.

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

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	D ▼ ESC/Motor p	rotocol
	Motor PWM speed Sep	parated from PID speed
	MOTOR_STOP	Don't spin the motors when armed

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

 Ports and receiver mode sets like the bellowing diagram: Set receiver mode to be RX\_PPM in Cleanflight or Betaflight Configurator

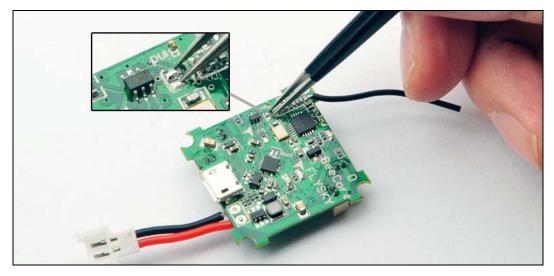
		ntroller firmware detects this the serial port configues s you know what you are doing. You may have to re									
ntifier	Data	Logging	Telemetry	RX	GPS						
8 VCP	MSP 115200 •	Blackbox 115200 T	Disabled  AUTO	Serial RX	57600 •						
RT1	MSP 115200 T	Blackbox 115200 *	Disabled T AUTO T	Serial RX	57600 •						
T2	MSP 115200 •	Blackbox 115200 •	Disabled • AUTO •	Serial RX	57600 •						
T3	MSP 115200 •	Blackbox 115200 •	Disabled V AUTO V	Serial RX	57600 •						
Rece	eiver Mode										
۲	RX_PPM	PPM RX inp	PPM RX input								
0 1	RX_SERIAL	Serial-base	Serial-based receiver (SPEKSAT, SBUS, SUMD)								
0 1	RX_PARALLEL_PWM	PWM RX in	PWM RX input (one wire per channel)								
0 1	RX_MSP	MSP RX inp	MSP RX input (control via MSP port)								
No RX SPE	SERIAL feature. KTRUM1024 KTRUM2048 JS MD		Ports tab) and choose a Se	erial Receiver Prov	vider when using						
XBU	JS_MODE_B JS_MODE_B_RJ01				-						

3. Binding Procedure:

a)Turn on your radio and Set receiver mode to AFHDS, then get your radio into binding mode(Take Flysky I6 as an example)



b) Connect the battery to the BEECORE while Jumped the two "Bind pins" on the board ,the Green LED will getting to be solid first and turn off for a second ,then it will getting to be solid again , this indicates binding successfully



- c) You should Disconnect the two "Bind" Pins after binding successfully. Please repeat the above operation if binding not success.
- 4. The default receiver channel map is AETR1234, please ensure your transmitter is matched with it, otherwise it can't be armed.

Channel Map	RSSI Channel
AETR1234	▼ 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	4 4	1400 I	15	00	' 1600	1	1800	6	'   2000	1   2100	
ANGLE	AUX 1 🔻															0
Add Range	Min: 1175 Max: 2100	 900	'   ' 1000	5	1200	8 2	'   <b>)</b> 1400	15	00	' 1600	1	1800	1	'   2000	2100	

6. Turn on the transmitter and move to the AUX. Channels interface, Set "SWA" or "SWB" switch etc. for CH5 to ARM/DISARM the motor, Take FLYSKY I6 as an example.



7. 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!