

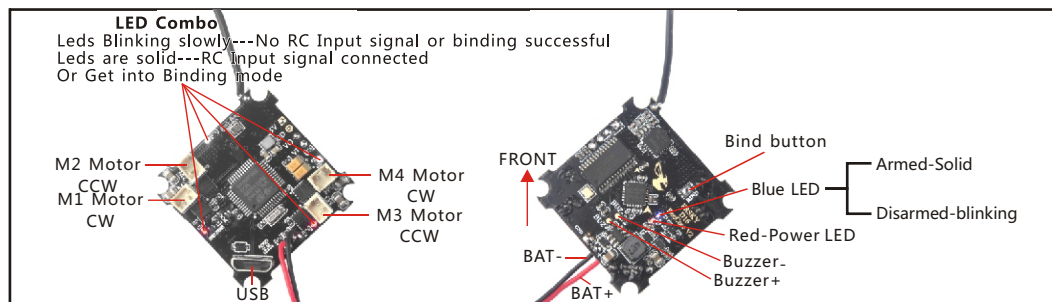
Eachine Beecore v2.0 D16 flight controller board manual

Beecore V2.0 D16 Version flight controller is a Ultimate version for 1S brushed Whoop racing drone, it's the world first Tiny whoop size brushless flight controller with D16 Receiver/Betaflight OSD/Telemetry all in one design, include all your needs for FPV racing drone..

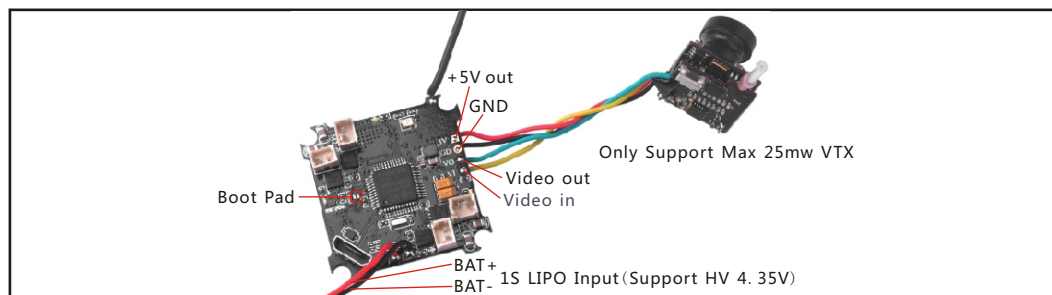
Notes:

The receiver connection will be unstable while the USB of the flight controller is plug into computer. So it can't be armed when connect to Computer, don't worry about that , disconnect the USB and then it will works normal

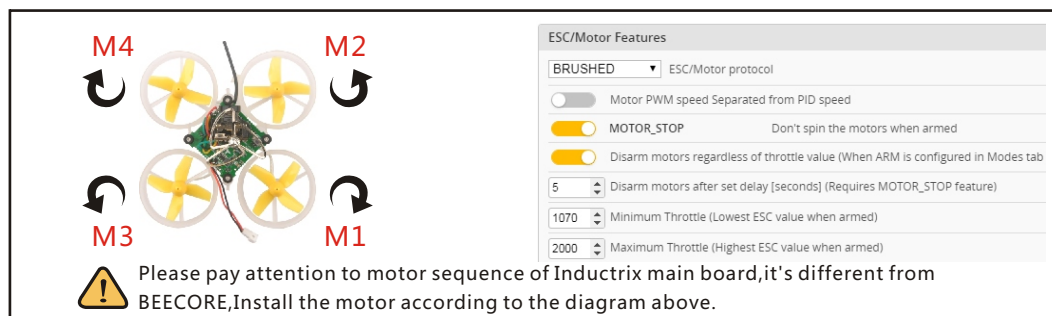
1.Connection and LED



2.Camera connection

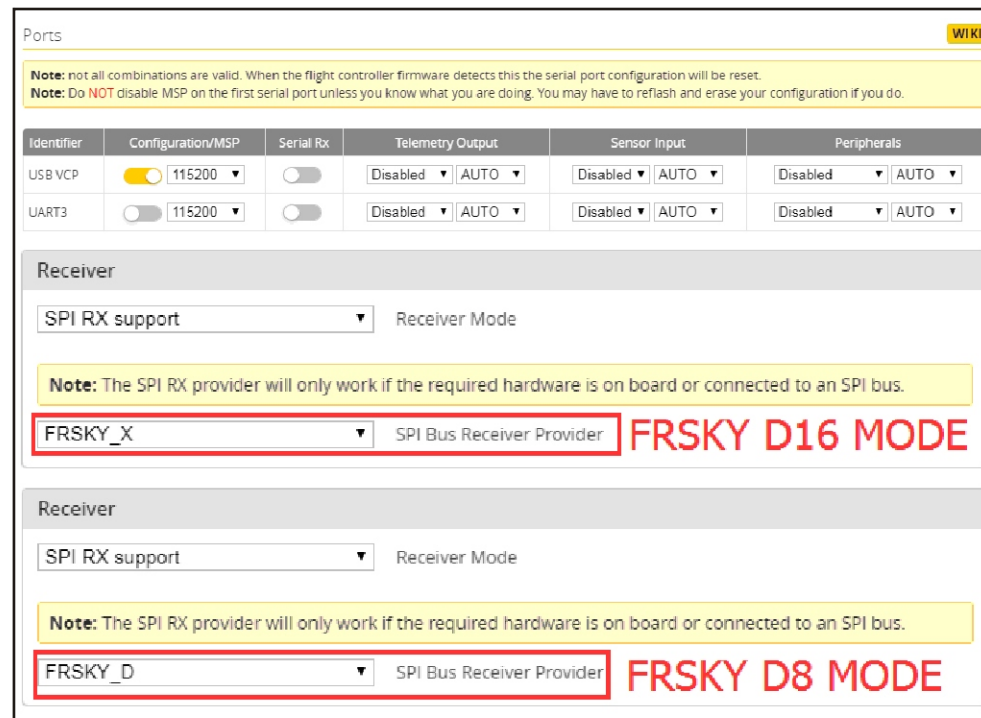


3.Mixer type and ESC/Motor protocol



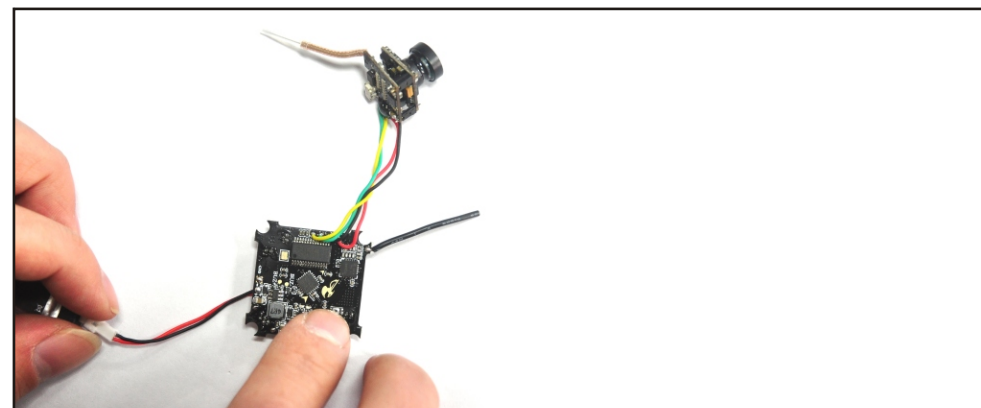
4.Receiver configuration

Please set Receiver mode to be SPI RX Support from the Configuration tab of the Betaflight Configurator, then select FRSKY_X Provider for FRSKY D16 MODE and Select FRSKY_D Provider for FRSKY D8 MODE, don't enable Serial RX since the Beecore V2.0 D16 Version Flight controller is integrated SPI BUS Receiver



5.Binding procedure:

1.Power for the flight controller and the LED Combo(2 red led and 2 white led) will blinking slowly, then Press and hold the bind button for 2 seconds, the LED Combo(2 red led and 2 white led) will getting to be solid, this indicate the Beecore v2.0 D16 Flight controller is in binding mode



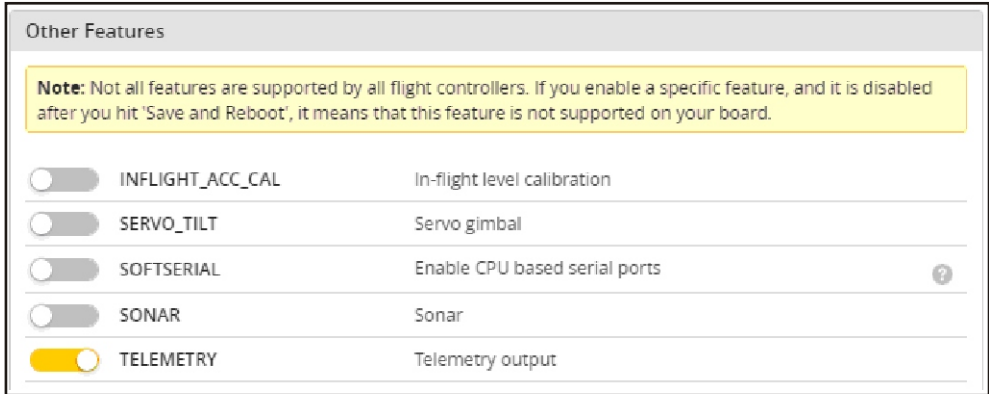
PRODUCT SPECIFICATION

- 2.Turn on your Frsky Taranis transmitter, and move to BIND OPTION from SETUP MENU, Choose receiver mode D16 or D8 according to your Betaflight receiver configuration(Frsky_X = D16, Frsky_D=D8)
- 3.ENT [BND] to binding with the Beecore v2.0 D16 version Flight controller, the LED Combo(2 red led and 2 white led) will blinking slowly on the flight controller ,this indicate binding successfully, and then exist binding mode of your Frsky transmitter, the LED Combo(2 red led and 2 white led) will getting to be solid again, this indicate working normal.



6.Receiver Telemetry Configuration

- 1.Just enable Telemetry from the configuration of Betaflight configurator.

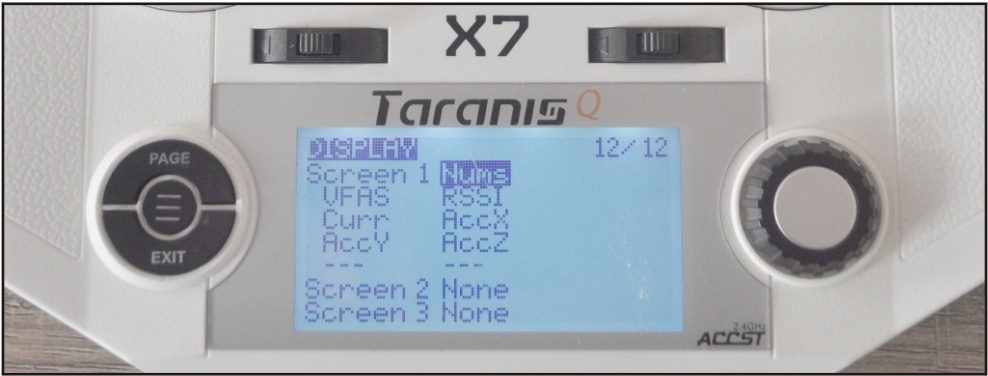


- 2.After binding successful, turn on the Frsky Transmitter and move to option TELEMETRY, then click “Discover new sensors”



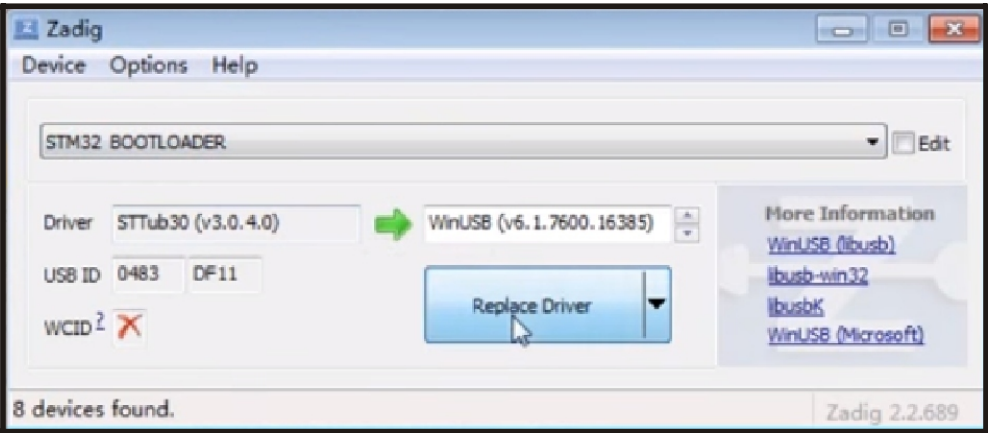
PRODUCT SPECIFICATION

- 3.Move to the “DISPLAY” Option and set screen to show the telemetry info



7.Flight controller firmware update

- 1.Install latest STM32 Virtual COM Port Driver <http://www.st.com/web/en/catalog/tools/PF257938>
- 2.Install STM BOOTLOAD Driver (STM Device in DFU MODE)
- 3.Download the BETAFLIGHT FIRMWARE for Beecore V2 D16 version Flight controller from website and Open Betaflight configurator and load Local firmware
- 4.There are 2 ways to get in DFU Mode:
- 1). solder the boot pad and then plug USB to comuper
- 2).loading betaflight firmware and hit “flash” , then it will getting into DFU Mode automatically.
- 5.Open Zadig tools to replace the drivers from STM32 Bootloader to WINUSB Driver.
- 6.Reconnect the flight controller to the computer after replace driver done , and open Betaflight configurator, loading firmware and flash.



*We will update the firmware for Beecore v2.0 D16 Version and release to our website in time