

HappyModel Crazy F411 ELRS AIO 4in1 F411 Flight Controller Built-in UART 2.4G ELRS RX 20A ESC 2-4S for RC FPV Drone

Price: **CNY 456.22** / piece

Seller Guarantees: Ships within 7 business days

Buyer protection 75 days Commit Delivery 75 days

View snapshot of order in English | View snapshot of order in Russian

This is a snapshot of the product taken when the order was placed. <u>View current product</u>

Product Details

Item specifics

Brand Name:Mitoot

Is Electric:No battery

Material:Metal

RC Parts & Accs:Radio Systems

Use: Vehicles & Remote Control Toys

Remote Control Peripherals/Devices:ESC

Quantity:1 pcs

Four-wheel Drive Attributes: Assemblage

Hign-concerned Chemical:None

Origin:Mainland China

Recommend Age:14+y

For Vehicle Type:Airplanes

Upgrade Parts/Accessories:Lithium Battery

Tool Supplies:Battery

Model Number:F411

Wheelbase:Screws

Product Description

Description

*"ET

and "ER" pads are used for communication with ESP8285, you can connect "TX" of FTDI tool to "ET" pad and connect "RX" of FTDI tool to "ER" pad for upgrade onboard UART ELRS receiver firmware. Need to short connect "+5V" and "E5" pads before that.

The

CrazyF411 ELRS flight controller comes with integrated UART 2.4GHz ExpressLRS receiver and 20A Blheli_s ESC(Bluejay firmware pre-installed) which could support 2-4s. Bigger Mosfet could support high to 20A currents would be better for 2-4S toothpick drone or long range FPV drone. And because the 2.4GHz ExpressLRS receiver is equipped with the SX1280 radio frequency chip with high sensitivity, high packet rate and low latency, this flight controller is the one that all Race/Freestyle pilots needed. The built-in ELRS receiver is UART communication with MCU, it's the same like Happymodel EP1 which you can update firmware by betaflight pass-through or WIFI, very simple. The default firmware is ELRS V3.0.1. This flight controller would be used for Crux35 to instead ELRS X1 flight controller.

Specifications:

Flight controller MCU:STM32F411CEU6 (100MHZ, 512K FLASH)

Sensor: ICM42688P or BMI270 (SPI Control)

Mount pattern: 25.5×25.5 M2

Size:32*28*9mm

Power supply: 2-4S Lipo battery
Built-in 20A Blheli_s ESC each
Built-in Betaflight OSD(SPI Control)

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Built-in UART ExpressLRS 2.4GHz receiver

Built-in 5V 1.5A BEC

Flight controller firmware target: CRAZYBEEF4DX

MCU upgraded to EFM8BB21

Power supply: 2-4S LiPo/LiPo HV (7v/17v) Currents: 20A continuous peak 25A (5 seconds)

Onboard 4in1 ESC
Support BLHeliSuite programmable

Factory firmware: Bluejay 0.18.1Firmware target: F_H_40_48_v0.18.1

Default protocol: DSHOT150/DSHOT300/DSHOT600

Packet Rate option: 25Hz/50Hz/150Hz/250Hz/500Hz

RF Frequency: 2.4GHzAntenna plug: IPEX

ExpressLRS 2.4GHz

Onboard UART

Telemetry output Power: <12dBm Receiver protocol: CRSF

Receiver

Default firmware version: ExpressLRS V3.0.1 Firmware target: HappyModel EP1/2 2400 RX

Onboard voltage and Amperage meters settings

Voltage meter scale setting 110
Amperage meter scale setting 470

Binding procedure:

1. Supply

power to the flight controller by plug USB, wait until the green LED on the FC is off, immediately turn off the power, and then repeat again the above steps. When the FC is powered on for the third time, the green LED light will start to double-flash, which means that the RX enters the binding mode

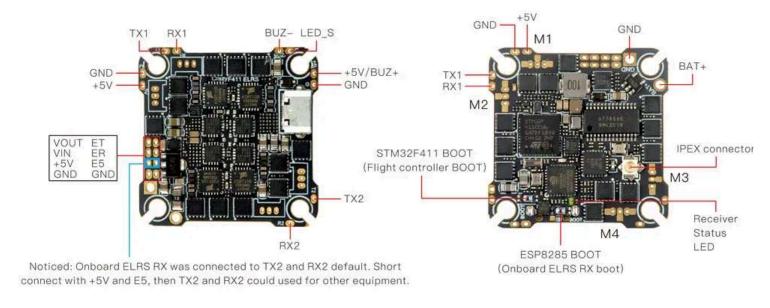
2. Please

make sure your ExpressLRS tx module firmware is v3.x.x. And go to ExpressLRS.lua from "TOOLS" menu of your radio transmitter. Then hit [Bind] to binding with the onboard ExpressLRS receiver. The green LED should blinking slowly first then turn to solid, that means binding was successfully. If the green led still keep double flash after binding please change Model Match tab value from "off" to "on" or from "on" to "off"

Receiver LED status meanings:

Green

LED solid means bind successful or RC link established; Green LED double-flash means get into bind mode; Green LED flash slowly means no RC signal input from TX module; Green LED continuous flash fast means ExpressLRS wifi enabled.





Bind successful



Bind mode



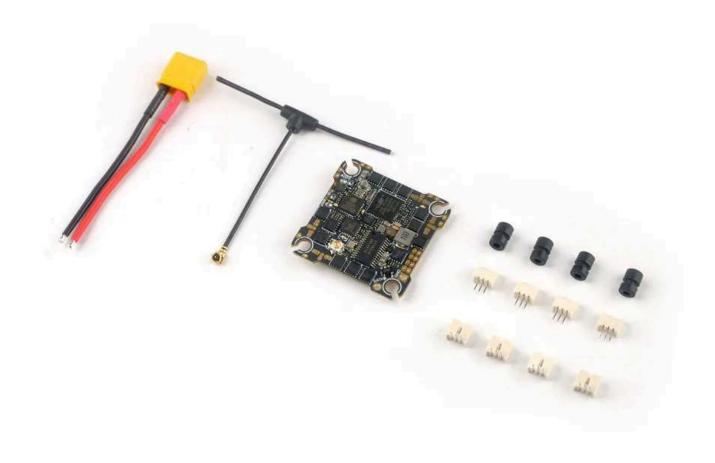
No RC Input



Wifi mode

Item Picture













Packaging Details

Unit Type:piece
Package Size:10cm x 5cm x 3cm

Package Weight:0.05kg