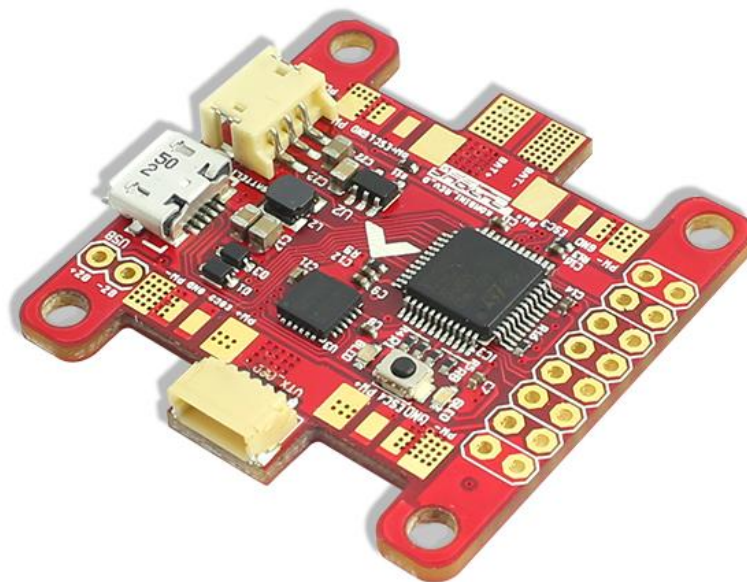




## **KOMBINI DSHOT VERSION**

### **Flight Controller**

## **USER MANUAL VERSION 1.2**



Please contact us if you need further assistance:

Tech support: [tech@furiousfpv.com](mailto:tech@furiousfpv.com)

Sales support: [sales@furiousfpv.com](mailto:sales@furiousfpv.com)

Website: <http://furiousfpv.com/>



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## Change Log

### v1.1

- Add guideline configuration OSD with TRUE VISION CONFIGURATOR V1.0
- New OSD Menu Index

### v1.2

- Update diagram connect with TBS Crossfire Micro Receiver

## Introduction

Designed nothing short of revolutionary, the Furious KOMBINI Flight Controller steps up the competition with feature packed insanity that is ready to alter your FPV world.

Unlike any other system available today, the Furious KOMBINI provides an all in one solution that brings forth the ultimate in simplified sophistication. This all-encompassing FC solution utilizes industry leading technology that has never been seen in a system this compact and powerful - the ultimate end game for high powered FPV flight.

Cluttered & complex wiring? Never again. With an industry 1st gold plated PDB that is integrated within, the KOMBINI FC provides the ultimate in soldering ease with the highest grade of connectivity, allowing direct soldering points for motors, VTx, Receiver and FPV Camera. Rated with 150A of current protection @ 5S 18.5V input power, the KOMBINI is ready to push the boundaries of aggressive FPV flight.

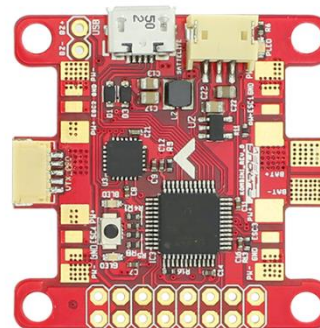
Utilizing the very latest F3 chip processor with built in BetaFlight firmware, the Furious KOMBINI utilizes industry leading components with an included LC filter for the very best in signal reception. Add the 1A 5V BEC with a built in SBUS inverter & Spektrum Satellite port, and the KOMBINI FC stand alone amongst all the rest with a potent blend of race ready madness.

Sized at 36mm x 36mm, the compact footprint of the KOMBINI FC is the perfect application of race ready aggression, providing a Flight Controller experience second to none. This adhesion of performance, capability & simplicity is the apex of FPV flight, providing the end user with a flight experience that brings everything to the table in a zero compromise design.

For the pinnacle in simplicity, performance and cutting edge capability, the Furious KOMBINI is the feature packed FC system that is ready and waiting to dominate. Get yours today, and change the way you FPV.

## WHAT'S NEW KOMBINI DSHOT VERSION?

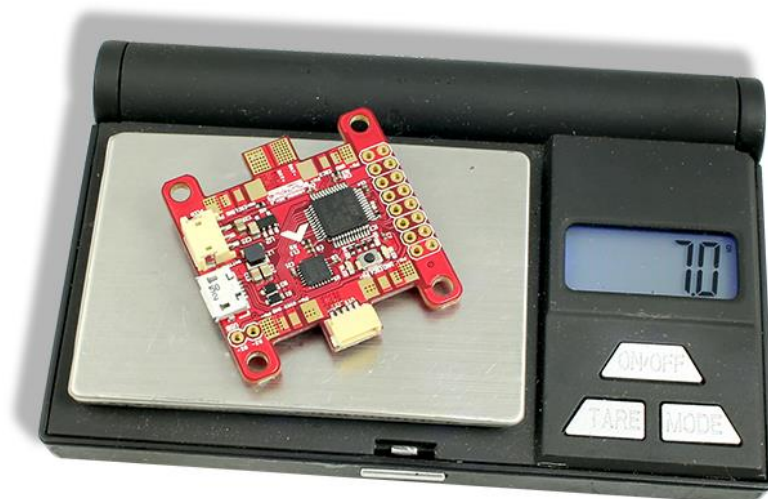
- Remove PPM pin and add TX3 pin for the pinnacle in simplicity, performance
- Ready support Dshot protocol
- New component for BEC better
- New red color for PCB



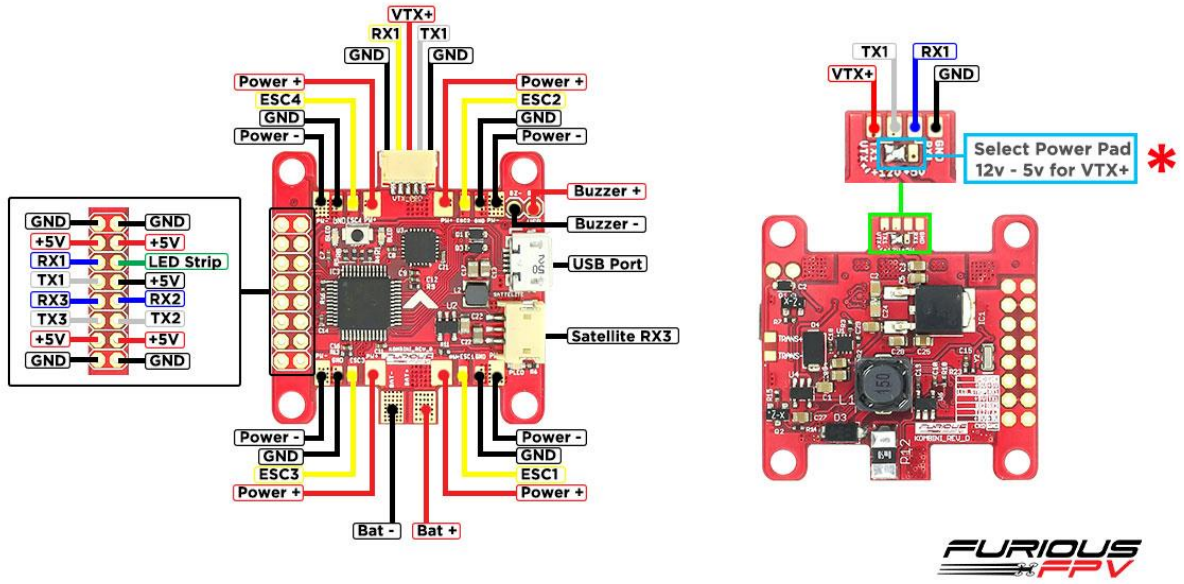
## Features

- Latest Generation F3 Processor Chip
- Simplicity Defined with Built In PDB
- Massive 150A PDB Current Protection
- LC Filter & 12V
- 800mA BEC for VTX

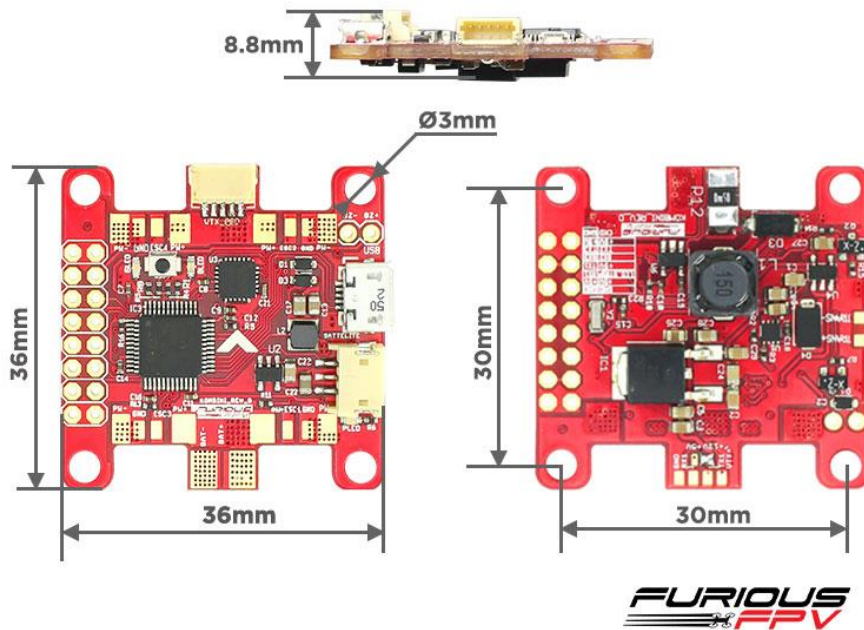
- 5S 18.5V Ready
- Heavy Duty 1.5A BEC @ 5V and 0.8A BEC @12V Output
- Ultra Compact Design for Ease of Installation
- Gold Plated Pads for the Very Best Connectivity
- Firmware Perfection via BetaFlight
- BLHeli Pass Through Setup
- Compact Sizing w/ 30.5mm x 30.5mm Mounting Holes
- Included Spektrum Satellite Port
- FrSky Telemetry, Ready & Waiting
- Full USB Support
- MPU6000 SPI Chip
- Weight: 7gr



## Board Layout



## Dimensions



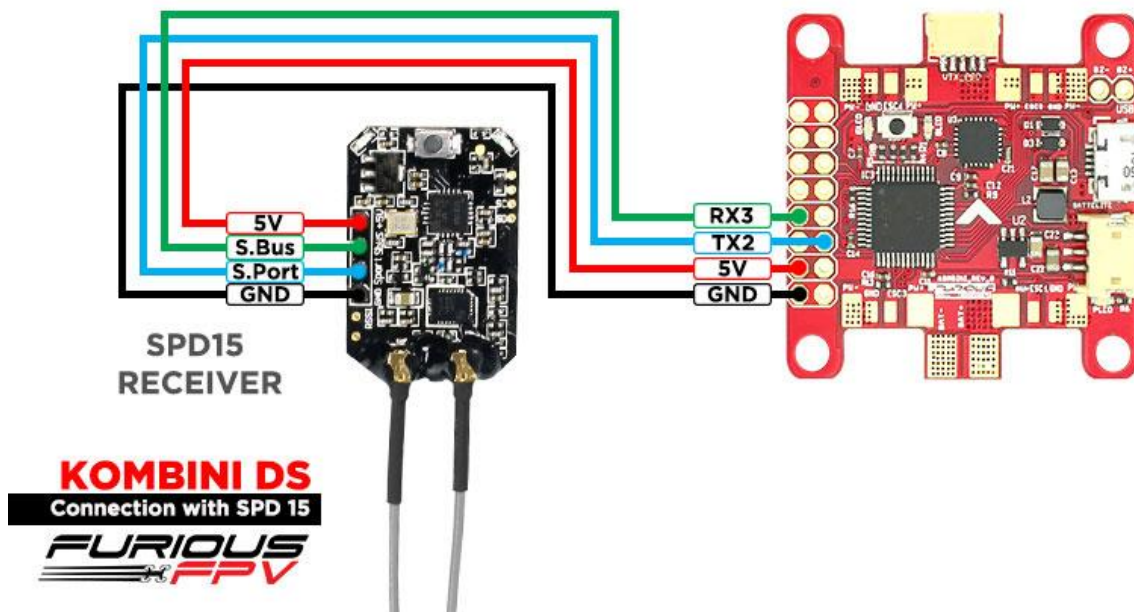
## Connections

**\*WARNING:** Kombini DShot Version can support up to 5s Lipo battery but make sure other devices also support it.

### Connect with Receiver:

#### ❖ Using SPD15 Receiver:

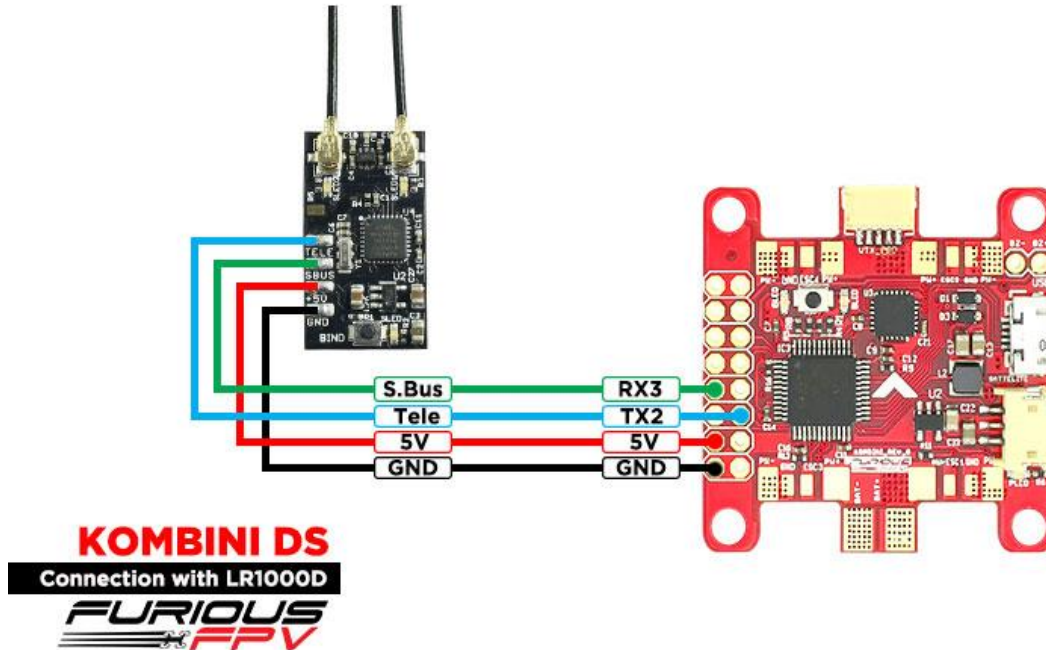
Port Identifier	Configuration	Serial Rx	Telemetry Output	Sensor Input
USB VCP	<input checked="" type="checkbox"/> MSP 115200 ▾	<input type="checkbox"/> Serial RX	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART1	<input type="checkbox"/> MSP 115200 ▾	<input type="checkbox"/> Serial RX	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART2	<input type="checkbox"/> MSP 115200 ▾	<input type="checkbox"/> Serial RX	SmartPort ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART3	<input type="checkbox"/> MSP 115200 ▾	<input checked="" type="checkbox"/> Serial RX	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾



You can buy SPD15 Receiver right here: <https://goo.gl/FTnrpR>

## ❖ Using LR1000D Receiver:

Port Identifier	Configuration	Serial Rx	Telemetry Output	Sensor Input
USB VCP	<input checked="" type="checkbox"/> MSP 115200 ▾	<input type="checkbox"/> Serial RX	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART1	<input type="checkbox"/> MSP 115200 ▾	<input type="checkbox"/> Serial RX	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART2	<input type="checkbox"/> MSP 115200 ▾	<input type="checkbox"/> Serial RX	SmartPort ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART3	<input type="checkbox"/> MSP 115200 ▾	<input checked="" type="checkbox"/> Serial RX	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾



You can buy LR1000D Receiver right here: <https://goo.gl/4Cr0HI>

\* **NOTE:** If you use LR1000D Receiver please go to CLI and type the following commands:

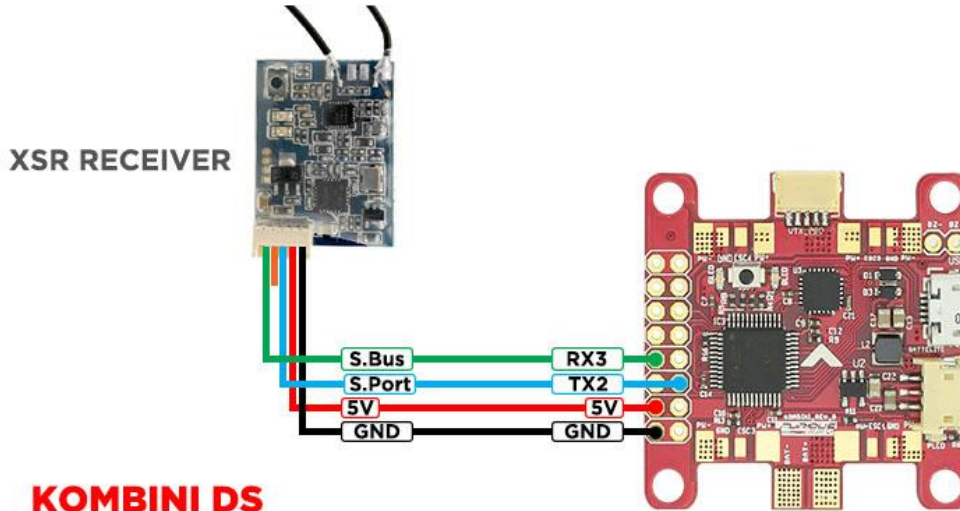
```
set sbus_inversion = OFF
```

```
save
```



## ❖ Using XSR FrSky Receiver:

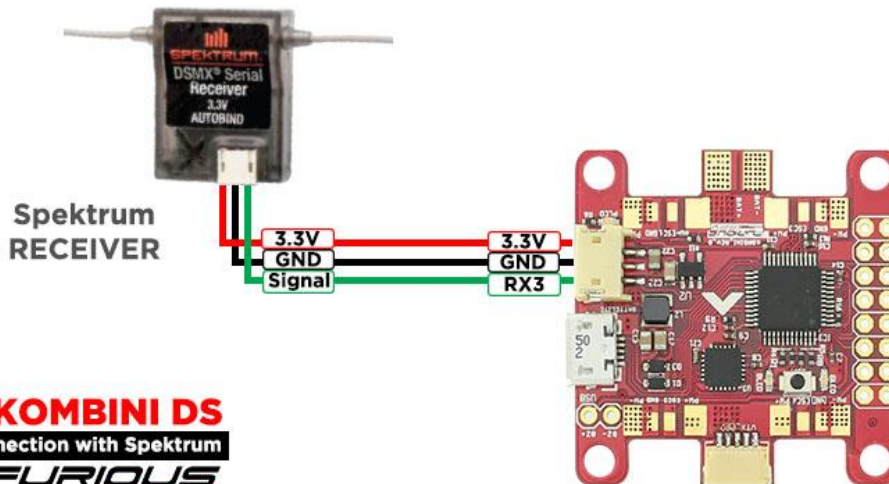
Port Identifier	Configuration	Serial Rx	Telemetry Output	Sensor Input
USB VCP	<input checked="" type="checkbox"/> MSP 115200 ▾	<input type="checkbox"/> Serial RX	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART1	<input type="checkbox"/> MSP 115200 ▾	<input type="checkbox"/> Serial RX	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART2	<input type="checkbox"/> MSP 115200 ▾	<input type="checkbox"/> Serial RX	SmartPort ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART3	<input type="checkbox"/> MSP 115200 ▾	<input checked="" type="checkbox"/> Serial RX	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾



**KOMBINI DS**  
Connection with XSR FrSky  
**FURIOUS FPV**

## ❖ Using Spektrum Satellite Receiver:

Port Identifier	Configuration	Serial Rx	Telemetry Output	Sensor Input
USB VCP	<input checked="" type="checkbox"/> MSP 115200 ▾	<input type="checkbox"/> Serial RX	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART1	<input type="checkbox"/> MSP 115200 ▾	<input type="checkbox"/> Serial RX	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART2	<input type="checkbox"/> MSP 115200 ▾	<input type="checkbox"/> Serial RX	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART3	<input type="checkbox"/> MSP 115200 ▾	<input checked="" type="checkbox"/> Serial RX	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾



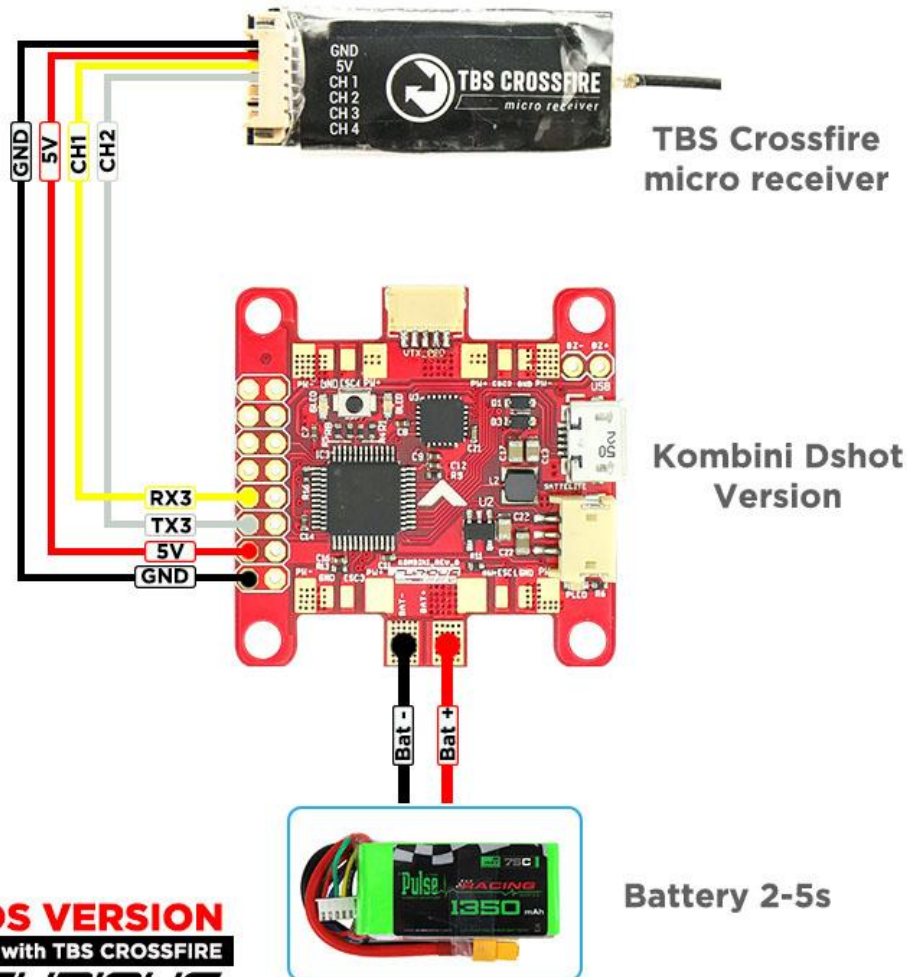
**KOMBINI DS**  
Connection with Spektrum  
**FURIOUS FPV**

## ❖ Using TBS Crossfire Micro Receiver:

### Ports

**Note:** not all combinations are valid. When the flight controller firmware detects this the serial port configuration will be reset.  
**Note:** Do **NOT** disable MSP on the first serial port unless you know what you are doing. You may have to reflash and erase your configuration if you do.

Identifier	Configuration/MSP	Serial Rx	Telemetry Output
USB VCP	<input checked="" type="checkbox"/> 115200 ▾	<input type="checkbox"/>	Disabled ▾ AUTO ▾
UART1	<input type="checkbox"/> 115200 ▾	<input type="checkbox"/>	Disabled ▾ AUTO ▾
UART2	<input type="checkbox"/> 115200 ▾	<input type="checkbox"/>	Disabled ▾ AUTO ▾
UART3	<input type="checkbox"/> 115200 ▾	<input checked="" type="checkbox"/>	Disabled ▾ AUTO ▾



**KOMBINI DS VERSION**  
 Connection with TBS CROSSFIRE

## Connect with Video Transmitter:

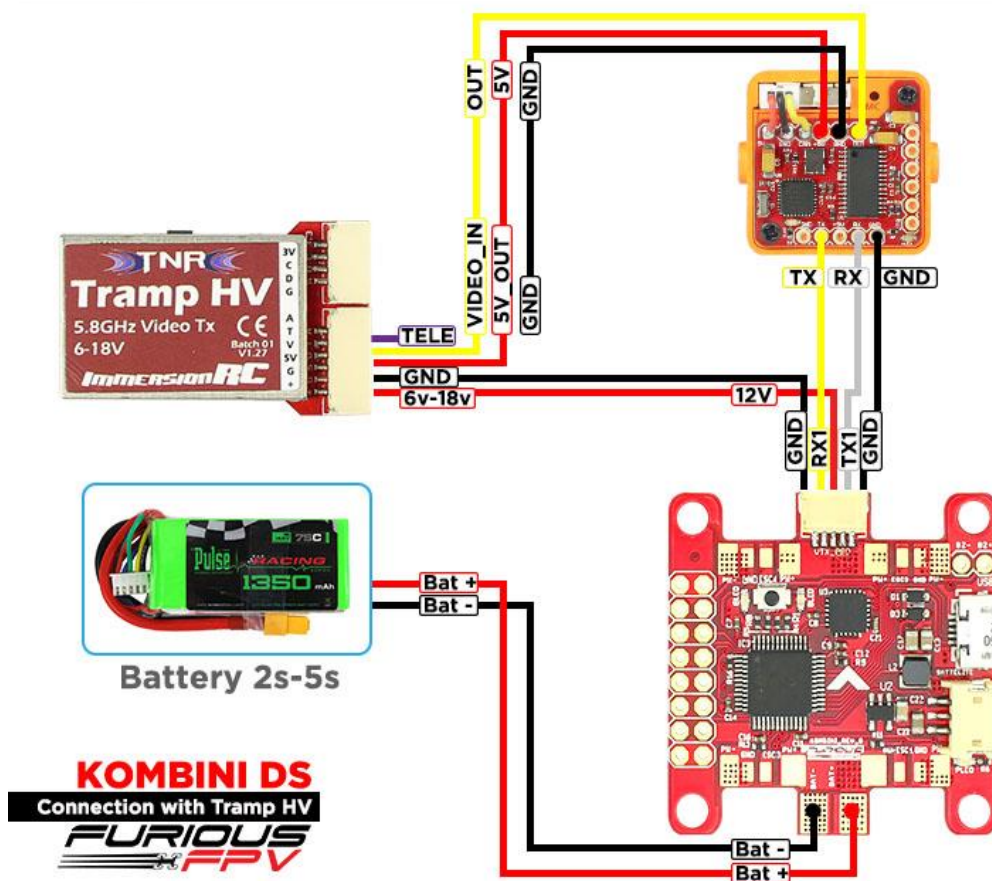
### ❖ Using Tramp HV:

- With Piggy V2 OSD

Ports

Note: not all combinations are valid. When the flight controller firmware detects this the serial port configuration will be reset.  
 Note: Do NOT disable MSP on the first serial port unless you know what you are doing. You may have to reflash and erase your configuration if you do.

Port Identifier	Configuration	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	<input checked="" type="checkbox"/> MSP 115200	<input type="checkbox"/> Serial Rx	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART1	<input checked="" type="checkbox"/> MSP 115200	<input type="checkbox"/> Serial Rx	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART2	<input type="checkbox"/> MSP 115200	<input type="checkbox"/> Serial Rx	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART3	<input type="checkbox"/> MSP 115200	<input type="checkbox"/> Serial Rx	Disabled AUTO	Disabled AUTO	Disabled AUTO

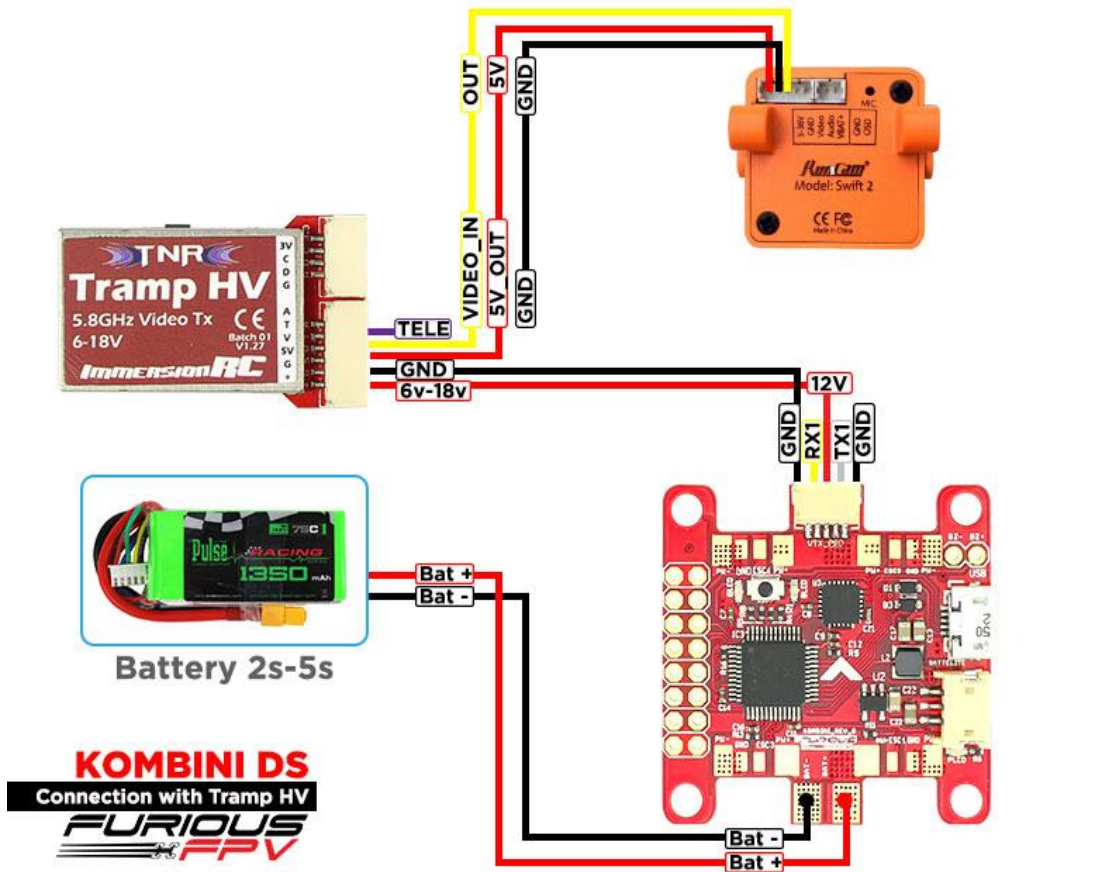


• With Only Camera

Ports

Note: not all combinations are valid. When the flight controller firmware detects this the serial port configuration will be reset.  
 Note: Do NOT disable MSP on the first serial port unless you know what you are doing. You may have to reflash and erase your configuration if you do.

Port Identifier	Configuration	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	<input checked="" type="checkbox"/> MSP   115200	<input type="checkbox"/> Serial RX	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART1	<input type="checkbox"/> MSP   115200	<input type="checkbox"/> Serial RX	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART2	<input type="checkbox"/> MSP   115200	<input type="checkbox"/> Serial RX	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART3	<input type="checkbox"/> MSP   115200	<input type="checkbox"/> Serial RX	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO



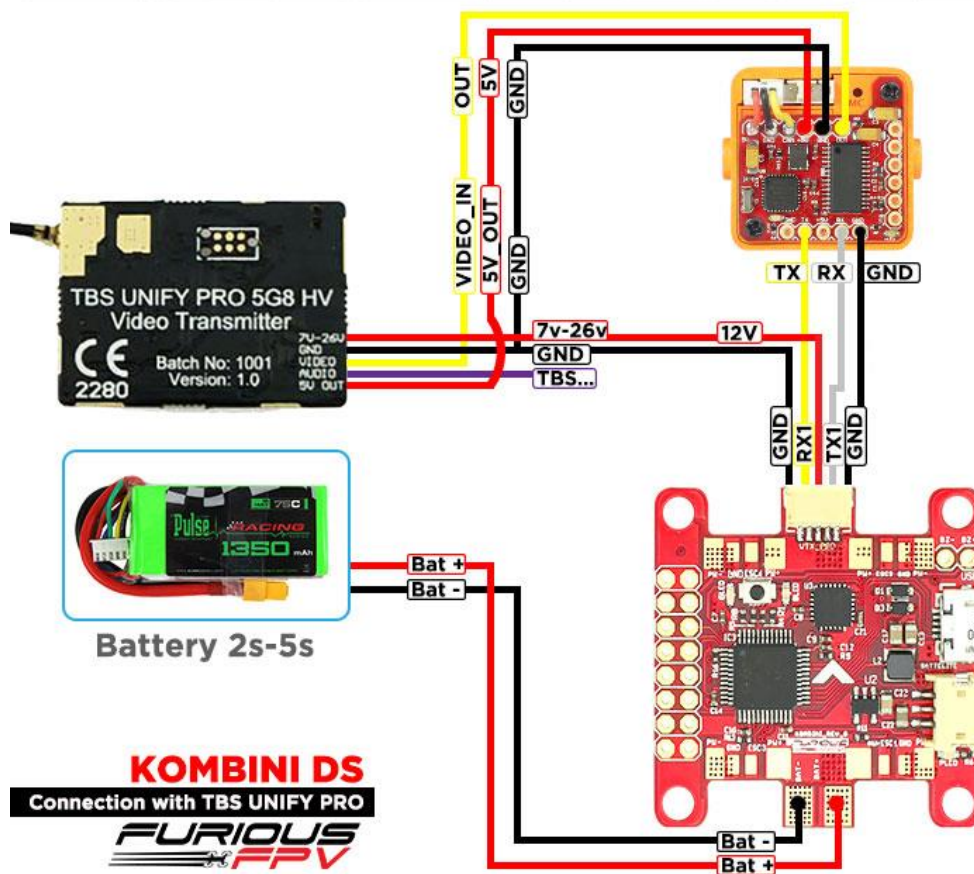
## ❖ Using TBS Unify Pro:

- With Piggy V2 OSD

### Ports

Note: not all combinations are valid. When the flight controller firmware detects this the serial port configuration will be reset.  
 Note: Do NOT disable MSP on the first serial port unless you know what you are doing. You may have to reflash and erase your configuration if you do.

Port Identifier	Configuration	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	<input type="checkbox"/> MSP   115200	<input type="checkbox"/> Serial Rx	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART1	<input checked="" type="checkbox"/> MSP   115200	<input type="checkbox"/> Serial Rx	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART2	<input type="checkbox"/> MSP   115200	<input type="checkbox"/> Serial Rx	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART3	<input type="checkbox"/> MSP   115200	<input type="checkbox"/> Serial Rx	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO

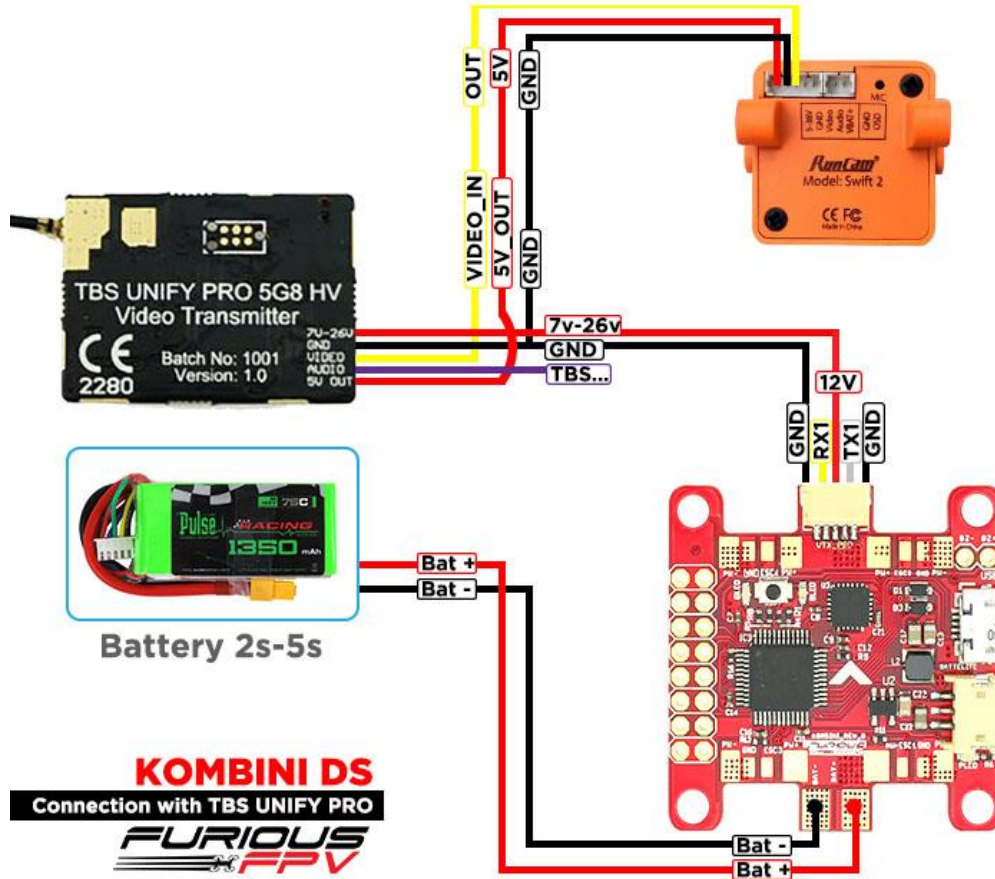


• With Only Camera

Ports

Note: not all combinations are valid. When the flight controller firmware detects this the serial port configuration will be reset.  
 Note: Do NOT disable MSP on the first serial port unless you know what you are doing. You may have to reflash and erase your configuration if you do.

Port Identifier	Configuration	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	<input checked="" type="checkbox"/> MSP 115200	<input type="checkbox"/> Serial RX	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART1	<input type="checkbox"/> MSP 115200	<input type="checkbox"/> Serial RX	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART2	<input type="checkbox"/> MSP 115200	<input type="checkbox"/> Serial RX	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART3	<input type="checkbox"/> MSP 115200	<input type="checkbox"/> Serial RX	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO



## ❖ Using FX FX799T:

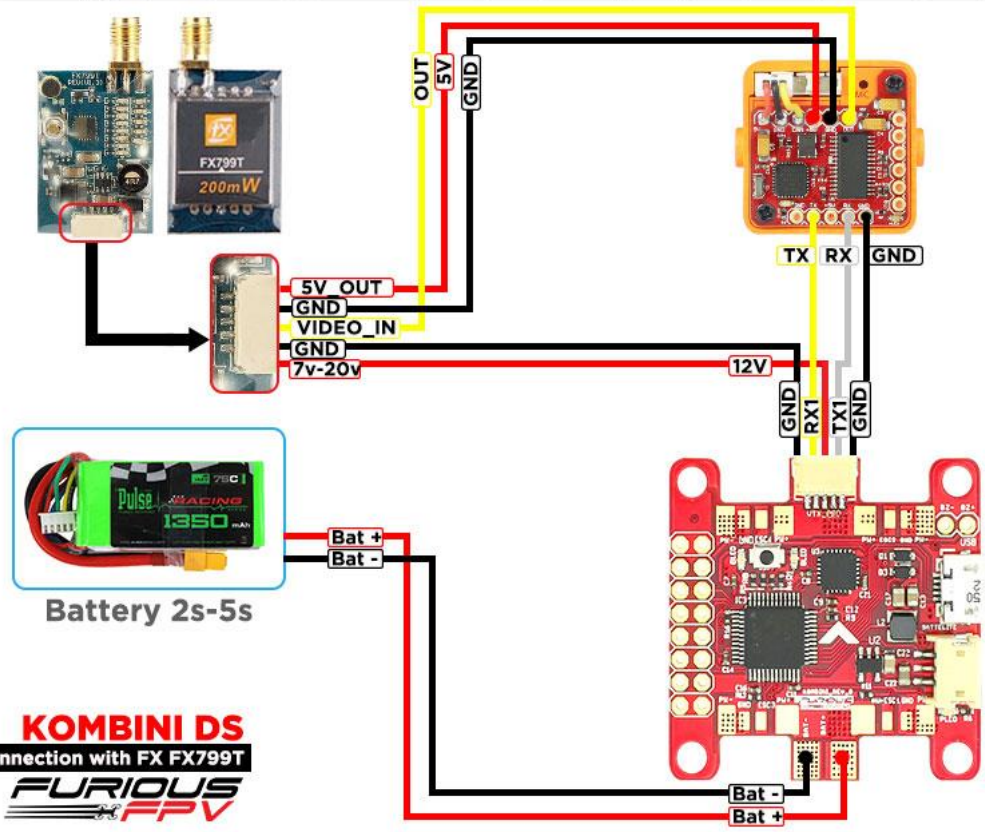
- With Piggy V2 OSD

Ports

Wiki

Note: not all combinations are valid. When the flight controller firmware detects this the serial port configuration will be reset.  
 Note: Do NOT disable MSP on the first serial port unless you know what you are doing. You may have to reflash and erase your configuration if you do.

Port Identifier	Configuration	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	<input checked="" type="checkbox"/> MSP   115200 ▾	<input type="checkbox"/> Serial Rx	Disabled ▾   AUTO ▾	Disabled ▾   AUTO ▾	Disabled ▾   AUTO ▾
UART1	<input checked="" type="checkbox"/> MSP   115200 ▾	<input type="checkbox"/> Serial Rx	Disabled ▾   AUTO ▾	Disabled ▾   AUTO ▾	Disabled ▾   AUTO ▾
UART2	<input type="checkbox"/> MSP   115200 ▾	<input type="checkbox"/> Serial Rx	Disabled ▾   AUTO ▾	Disabled ▾   AUTO ▾	Disabled ▾   AUTO ▾
UART3	<input type="checkbox"/> MSP   115200 ▾	<input type="checkbox"/> Serial Rx	Disabled ▾   AUTO ▾	Disabled ▾   AUTO ▾	Disabled ▾   AUTO ▾

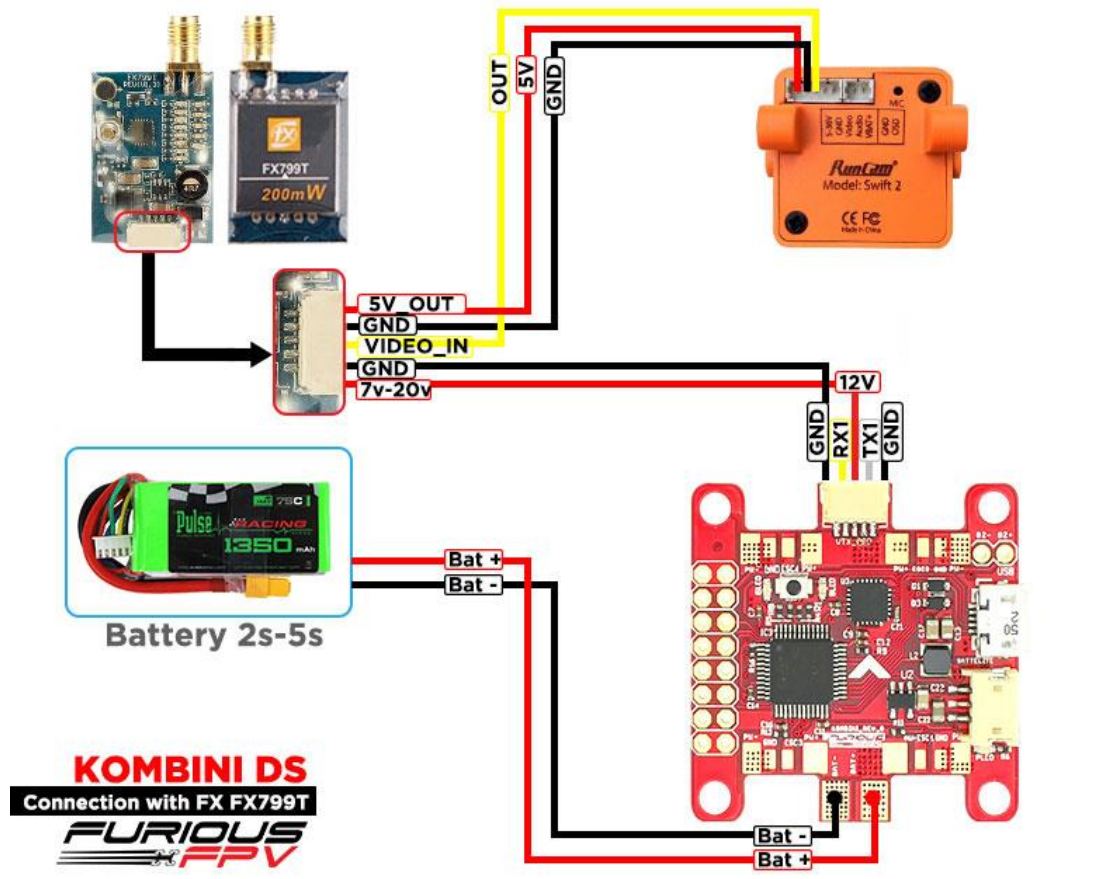


• With Only Camera

Ports

Note: not all combinations are valid. When the flight controller firmware detects this the serial port configuration will be reset.  
 Note: Do NOT disable MSP on the first serial port unless you know what you are doing. You may have to reflash and erase your configuration if you do.

Port Identifier	Configuration	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	<input checked="" type="checkbox"/> MSP   115200	<input type="checkbox"/> Serial RX	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART1	<input type="checkbox"/> MSP   115200	<input type="checkbox"/> Serial RX	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART2	<input type="checkbox"/> MSP   115200	<input type="checkbox"/> Serial RX	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART3	<input type="checkbox"/> MSP   115200	<input type="checkbox"/> Serial RX	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO



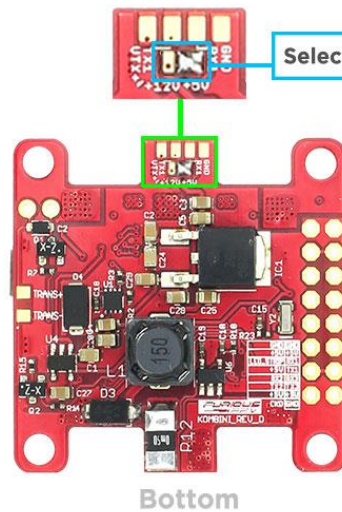
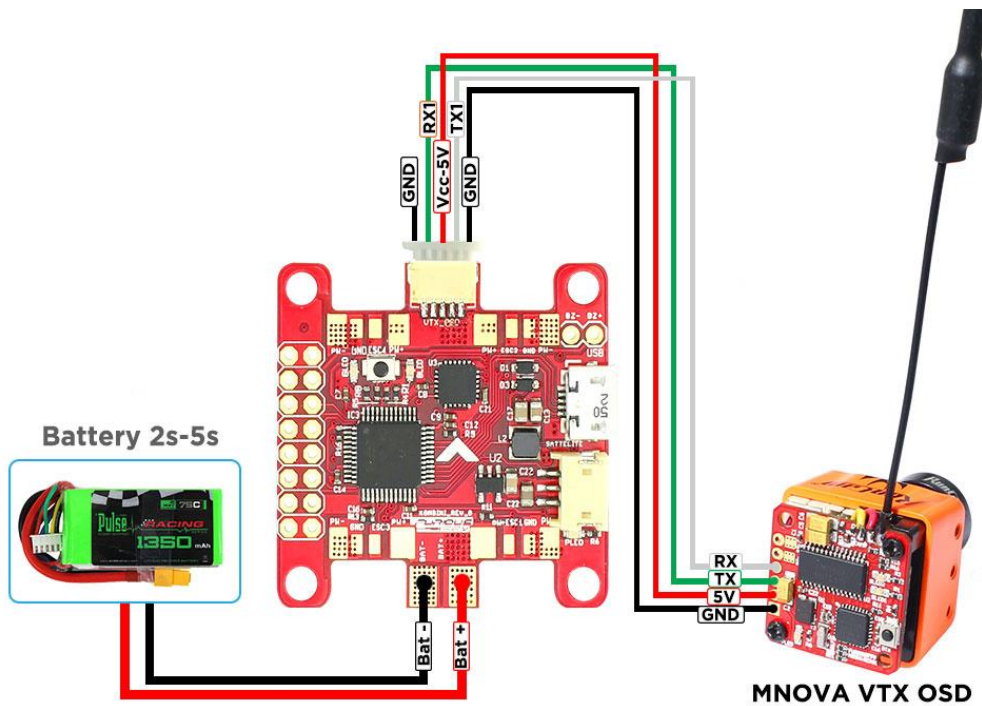


## Connect with stack Mnova and Runcam :

### Ports

**Note:** not all combinations are valid. When the flight controller is powered on, the flight controller will automatically detect the MNOVA VTX OSD and configure the serial port for it.  
**Note:** Do NOT disable MSP on the first serial port unless you have a good reason to do so.

Port Identifier	Configuration
USB VCP	<input checked="" type="checkbox"/> MSP 115200 ▼
UART1	<input checked="" type="checkbox"/> MSP 115200 ▼
UART2	<input type="checkbox"/> MSP 115200 ▼
UART3	<input type="checkbox"/> MSP 115200 ▼

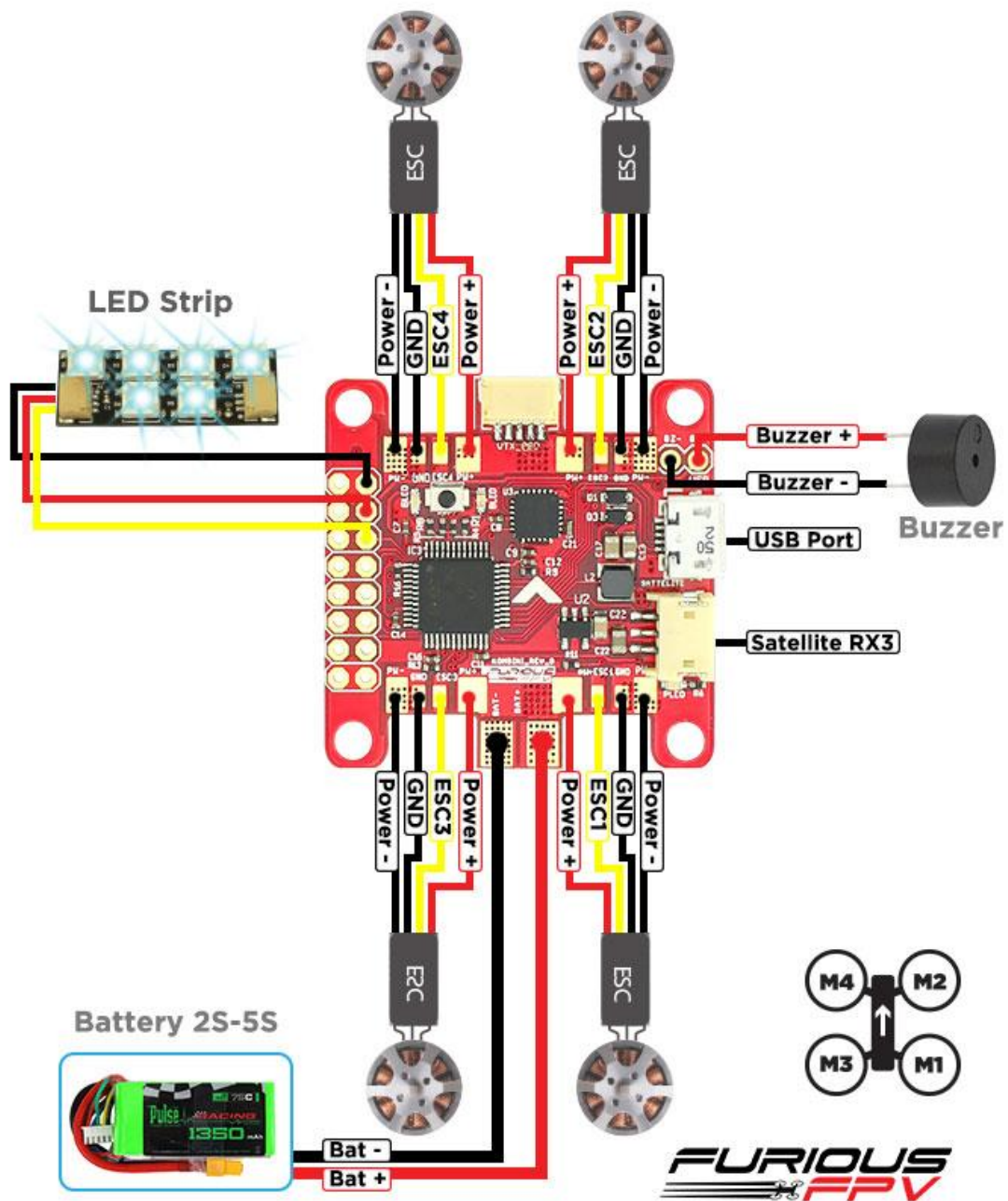


**\* Mnova is only compatible with 5V input. Please only solder to 5V input**



You can buy Mnova right here: <https://goo.gl/JyQnds>

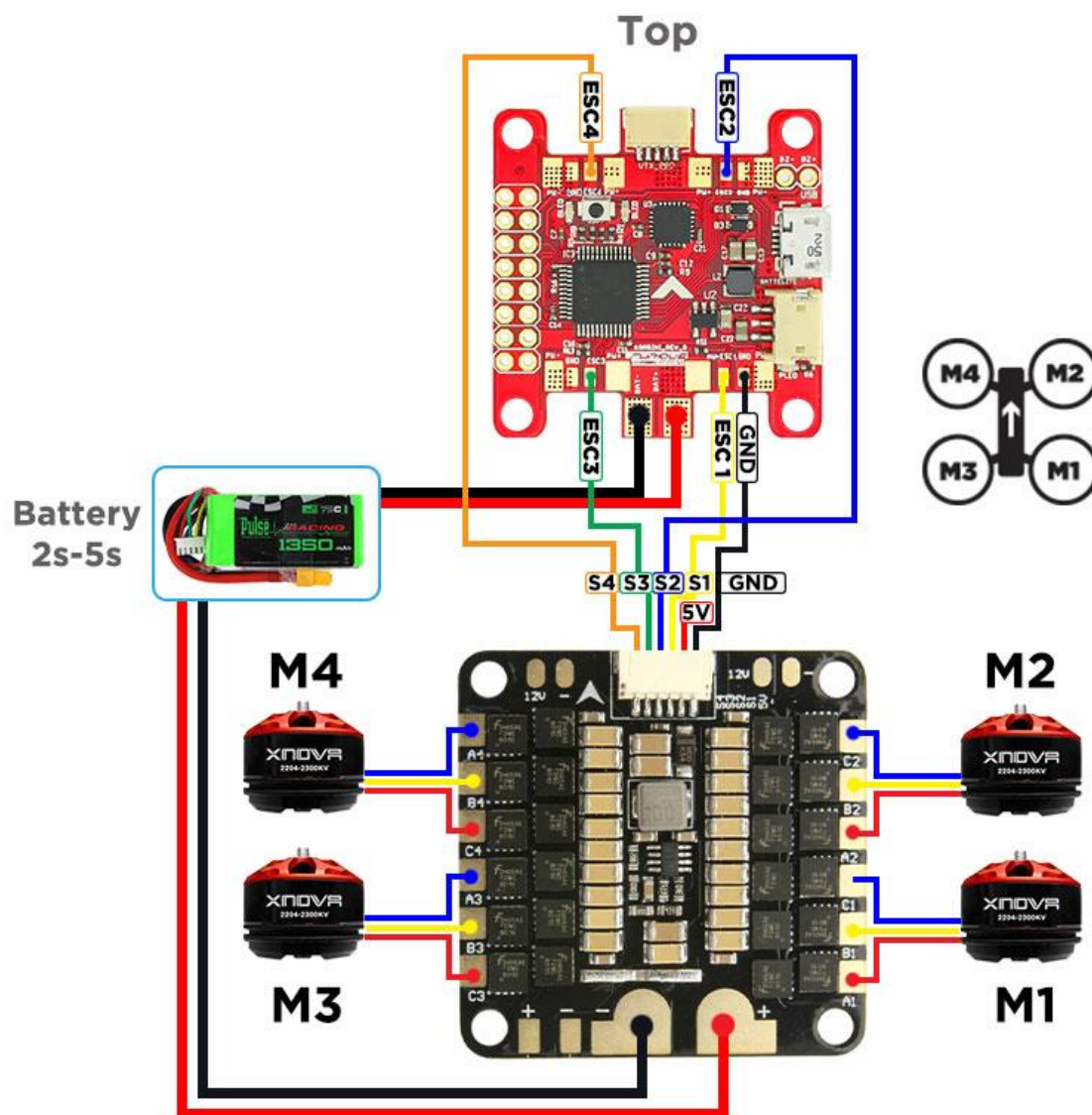
## Connect with other devices:



You can buy LED STRIP right here: <https://goo.gl/TXwSwI>

## Connect with ESC 4 in 1:

### ❖ Using Aikon SEFM 30A:

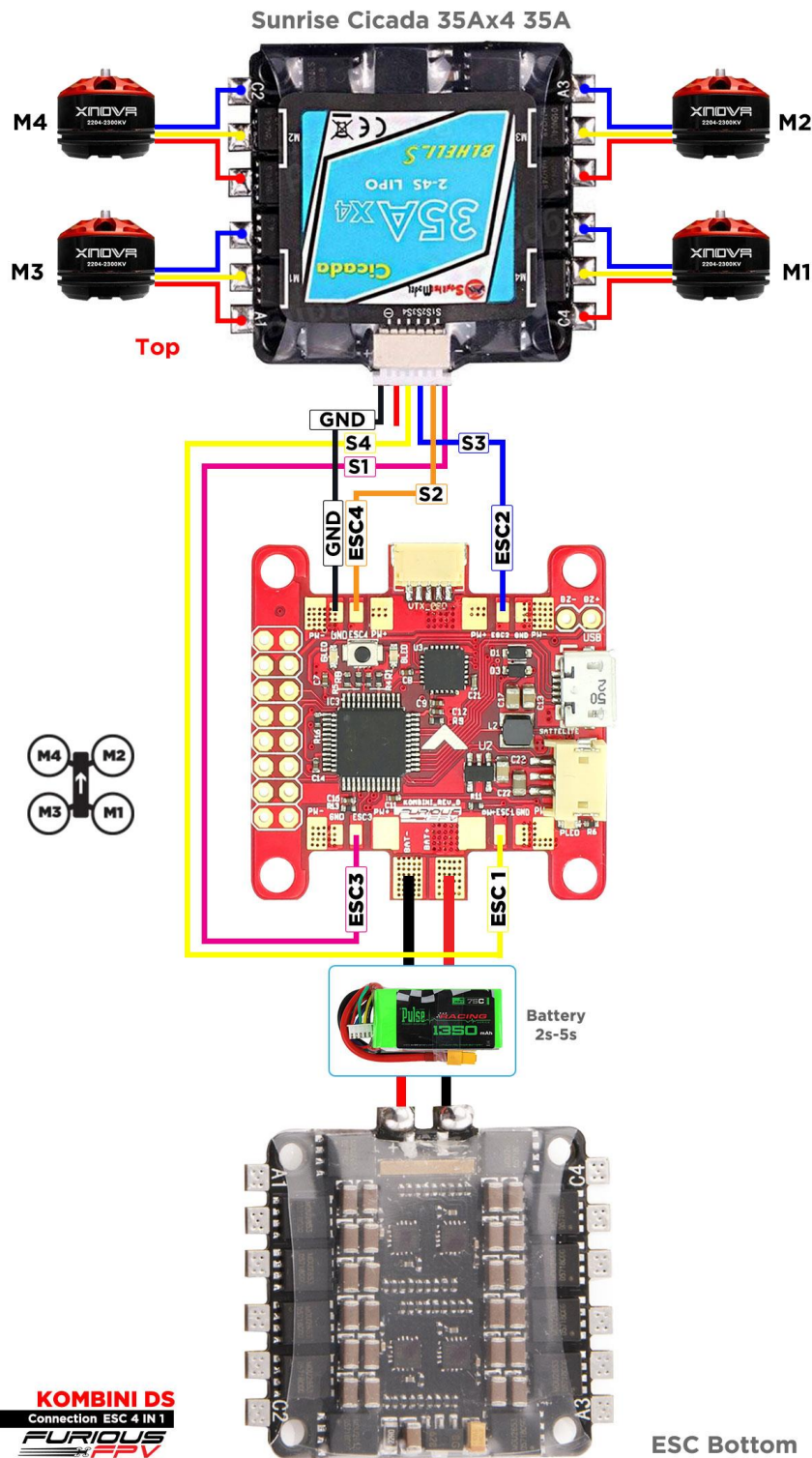


**KOMBINI DS**  
Connection ESC 4 IN 1  
**FURIOUS**  
*FPV*

Aikon SEFM 30A 4-in-1

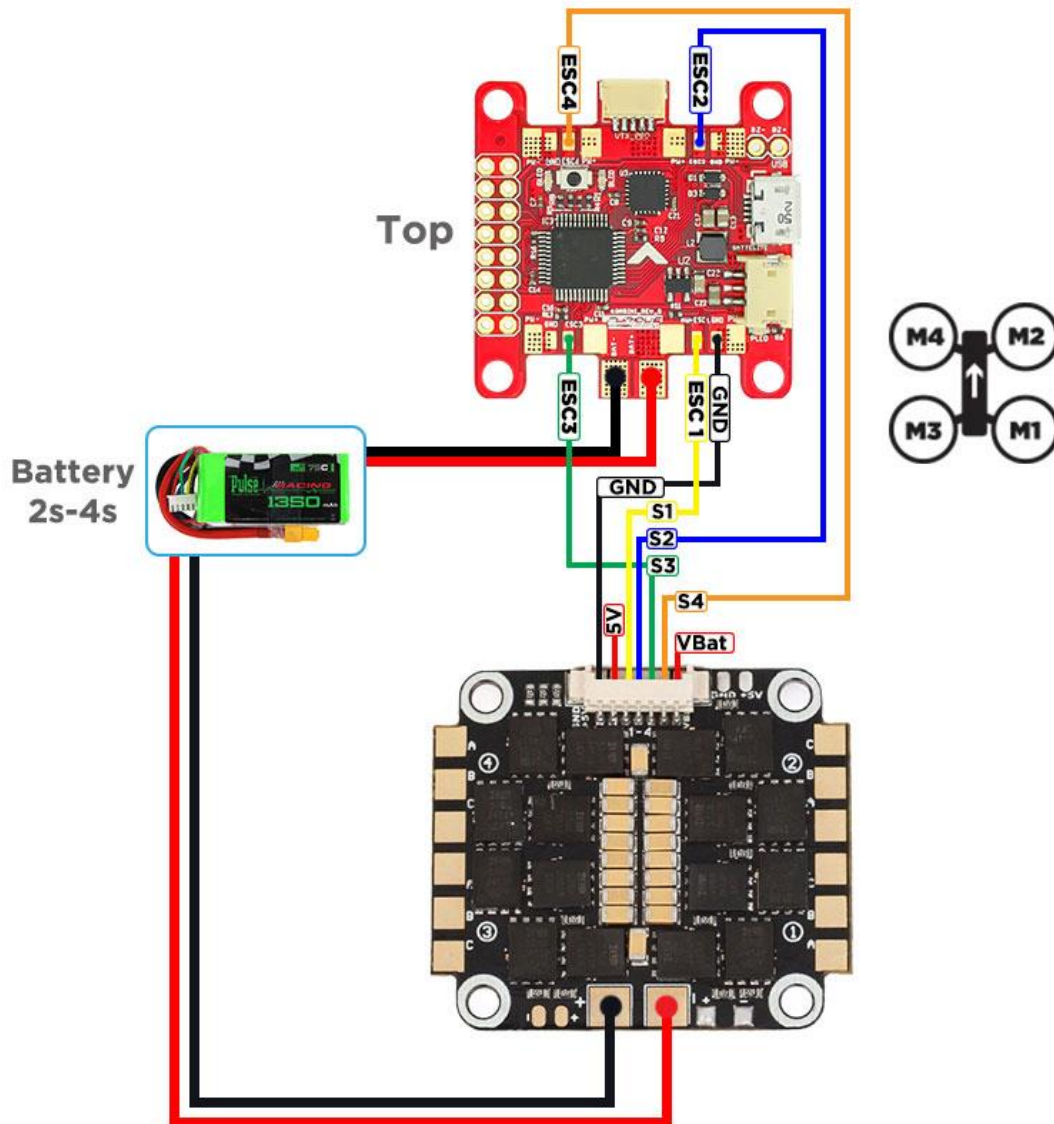
You can buy ESC Aikon SEFM 30 4 in 1 right here: <https://goo.gl/IOYBEr>

## ❖ Using Cicada 35x4 35A:



You can buy ESC Sunrise Cicada 35x4 35A right here: <https://goo.gl/s08OaI>

## ❖ Using T-Motor F 35A 4IN1-4S:



**KOMBINI DS**  
Connection ESC 4 IN 1  
**FURIOUS**  
**FPV**

**F 35A 4IN1-4S**

You can buy ESC F 35A 4in1-4S right here: <https://goo.gl/QyM3eh>

## Basic setup

Please, follow carefully these next steps, and always **remove** your propellers when you're configuring your quad

**STEP 1: Connect** Kombini DS with the computer via **USB** cable and then **open** BetaFlight

**STEP 2: Configure Ports.**

- (1) Turn on **MSP** of **UART 1** to use OSD.
- (2) Turn on **Serial Rx** of **UART 3** to use **Receiver Mode**
- (3) Select **SmartPort** of **UART 2** to use **S.Port** of Receiver.

Port Identifier	Configuration	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	<input checked="" type="checkbox"/> MSP   115200	<input type="checkbox"/> Serial RX	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART1	<input checked="" type="checkbox"/> MSP   115200	<input type="checkbox"/> Serial RX	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART2	<input type="checkbox"/> MSP   115200	<input type="checkbox"/> Serial RX	SmartPort   AUTO	Disabled   AUTO	Disabled   AUTO
UART3	<input type="checkbox"/> MSP   115200	<input checked="" type="checkbox"/> Serial RX	Disabled   AUTO	Disabled   AUTO	Disabled   AUTO

**\* Note:** Please make sure that all the connections are correct.

**STEP 3: Go to Configuration tab** and choose **ESC/Motor** protocol in **ESC/Motor Features**

Configuration

Note: Not all combinations of features are valid. When the flight controller firmware detects invalid feature combinations conflicting features will be disabled.  
Note: Configure serial ports before enabling the features that will use the ports.

Mixer: Quad X

ESC/Motor Features: DSHOT600

**STEP 4: Select Serial- based receiver in Receiver Mode**

Setup

- Ports
- Configuration**
- Failsafe
- PID Tuning
- Receiver
- Modes
- Adjustments
- Servos
- Motors
- Sensors
- Tethered Logging
- CU

Board and Sensor Alignment

Roll Degrees: 0 | GYRO Alignment: Default

Pitch Degrees: 0 | ACCEL Alignment: Default

Yaw Degrees: 0 | MAG Alignment: Default

Accelerometer Trim

Accelerometer Roll: 0

Accelerometer Pitch: 0

Battery Voltage

VBAT Battery voltage

Onboard ADC: 3.3 | Minimum Cell Voltage

4.3 | Maximum Cell Voltage

3.5 | Warning Cell Voltage

110 | Voltage Scale

0.0 | Battery Voltage

Receiver

Serial-based receiver (SPEKSAT, S) | Receiver Mode

Note: Remember to configure a Serial Port (via Ports tab) and choose a Serial Receiver Provider when using RX\_SERIAL feature.

SBUS | Serial Receiver Provider

RSSI (Signal Strength)

RSSI\_ADC Analog RSSI input

If you are using SBus, iBus or a Spektrum Satellite, you will need to pick your Serial Receiver Provider. Follow this table:

RX Type	Serial Receiver Provider
DSM2 1024bit/22ms	SPEKTRUM1024
DSM2 2048bit/11ms	SPEKTRUM2048
DSMX 1024bit/22ms	SPEKTRUM1024
DSMX 2048bit/11ms	SPEKTRUM2048
FrSky RX	SBUS
Futaba RX	SBUS
FlySky RX	IBUS
Turnigy RX	IBUS

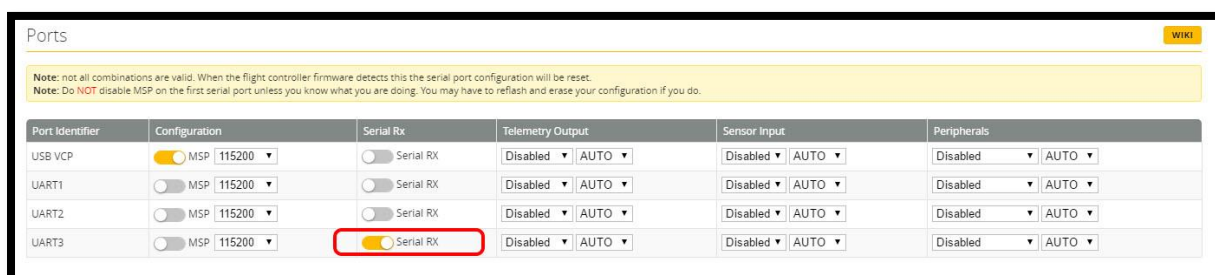
Click **“Save and Reboot”**.

## Tips

### How to configure your Spektrum RX with your Flight Controller

In Betaflight Configurator:

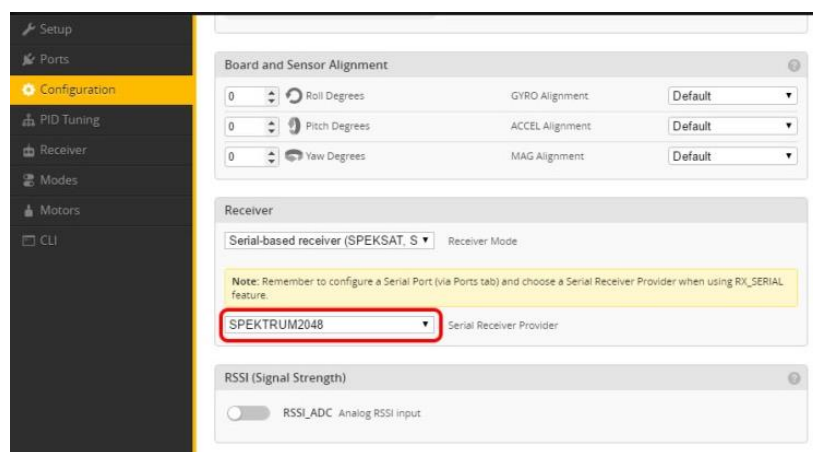
- Go to the **Ports** tab
- Enable **“Serial RX”** on the UART 3



Click **“Save”**.

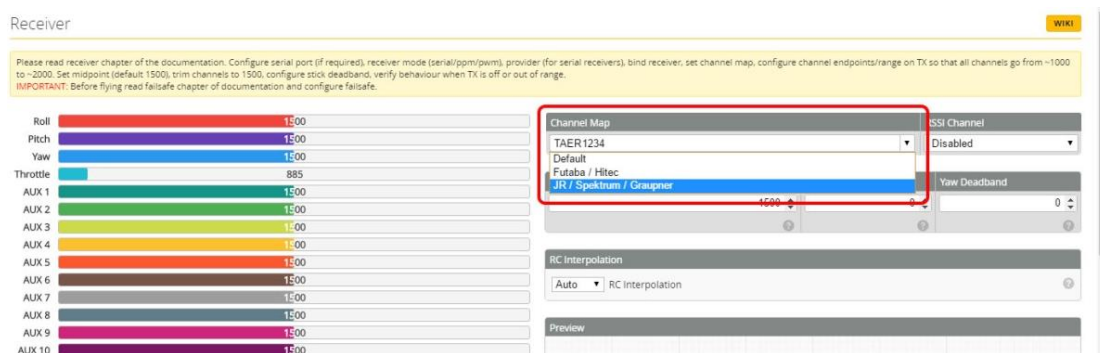
Then go to the **Configuration** tab. Under the section labeled “**Receiver**”, pick **Serial Receiver Provider** compare with your **RX Type**.

RX Type	Serial Receiver Provider
DSM2 1024bit/22ms	SPEKTRUM1024
DSM2 2048bit/11ms	SPEKTRUM2048
DSMX 1024bit/22ms	SPEKTRUM1024
DSMX 2048bit/11ms	SPEKTRUM2048



Click “**Save**”.

Finally, go to the **Receiver** tab. Pull down the drop down that says “**Channel Map**” and select the “**JR / Spektrum / Graupner**” option.



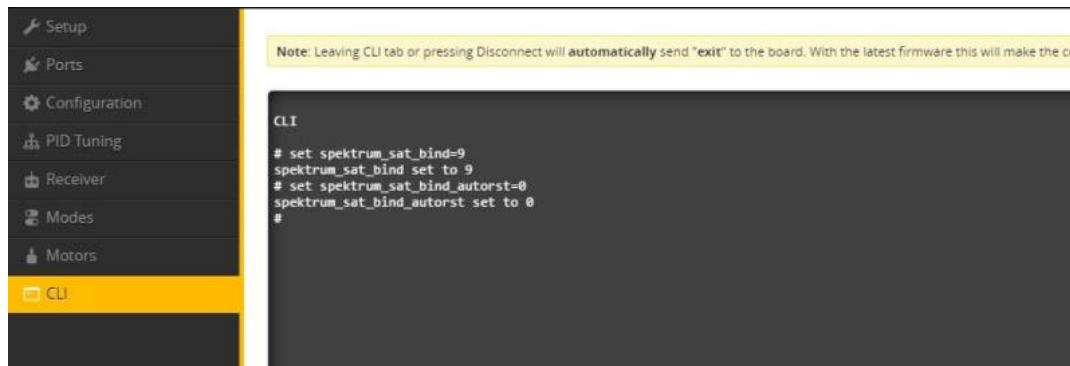
Once again, click “**Save**”.



## How to turn on bind mode

**NOTE:** Plug battery to the quad during setup.

Connect quadcopter to the computer and go to Command-line interface (CLI) tab.



Remember to type “**save**” and hit **enter** after these commands have been executed.

Type in the commands as pictured above, or copy and paste them from below:

```
set spektrum_sat_bind=9
```

```
set spektrum_sat_bind_autorst=0
```

```
save
```

**NOTE** – if you are using a **DSM2 receiver**, change “**set spektrum\_sat\_bind=9**” to

```
“set spektrum_sat_bind=5”
```

Reboot your Flight Controller by unplugging the Flight Controller from your PC then plugging it back in.

Your RX should go into bind mode by now as the LED on the RX will be blinking rapidly.

## Guideline configuration OSD with TRUE VISION CONFIGURATOR V1.0

### Serial Pass Through don't need CLI in Betaflight

**DOWNLOAD:** [Guideline install and configuration TRUE VISION CONFIGURATOR](#)

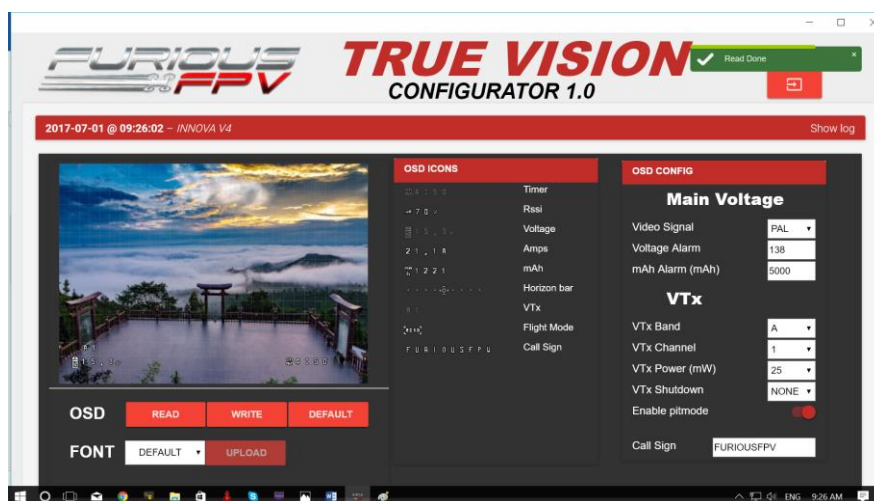
**STEP 1:** Connect Kombini DS (connected with VTX/OSD) with PC via USB cable. Then plug battery for FC.

**STEP 2:** Open True Vision Configurator on google chrome.

**STEP 3:** Please select **Port COM (1)** correlative with your device, then select **UART 1 (2)** using for OSD.



**STEP 4:** Plug Battery for Kombini DS, then click **Connect icon** on True Vision interface to connect and configuration OSD layout and setting.



**STEP 5:** After configuration device please click **WRITE** to save your configuration.

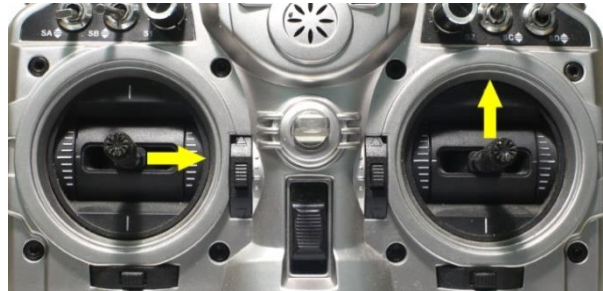
## How to open VTX/OSD menu by Transmitter

To access the in-built OSD menu in MW-OSD, disarm your quadcopter first.

- THROTTLE MIDDLE
- YAW RIGHT
- PITCH FULL

To navigate through menu in the OSD:

- **PITCH/ROLL** sticks are used to navigate
- **YAW** stick is used to **adjust / change** values



OSD Menu Index:

```

WARNING
INMOVA-V4 IS LOCKED, ENTER
CALLSIGN TO UNLOCK,
VTX POWER CAN ONLY BE
CHANGED ONCE UNLOCKED

PID CONFIG/PROFILE 1
P I D
ROLL 44 40 30
PITCH 58 50 35
YAW 70 45 20
VTX CONFIG
PIT MODE ON
VTX POWER 25
VTX SHUTDOWN NONE
VTX BAND A
VTX CHANNEL 1
EXIT SAVE+EXIT< <PAGE>

```

- PID Config/Profile 1/2 or 3:
  - Roll/Pitch/Yaw PID for many flight modes
- VTx Config:
  - Pit mode: On/Off
  - VTx Power: 25/200
  - VTx Shutdown: None/AUX1/AUX2/AUX3/AUX4
  - VTx Band: A/B/E/F/C/U/O/L/H
  - VTx Channel: 1/2/3/4/5/6/7/8
- RC Tuning (RC Rate, RC Expo, Pitch/Roll Rate, Yaw Rate, TPA (Throttle PID Att), Throttle Mid, Throttle Expo, TPA Breakpoint, Yaw RC Expo)
- OSD Config (Display Main Volts, Display Amps, Display mAH, Display RSSI, Horizon, Main Volts Alarm, mAH X100, Callsign)
- Statistics ( Fly Time, mAH Used, Max Amps, Voltage)



***Thanks for using our product***