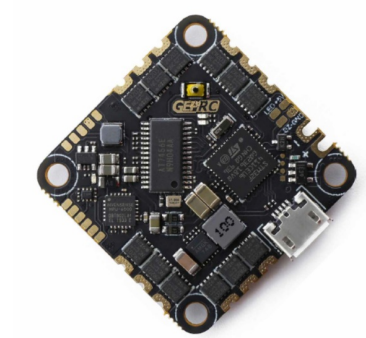




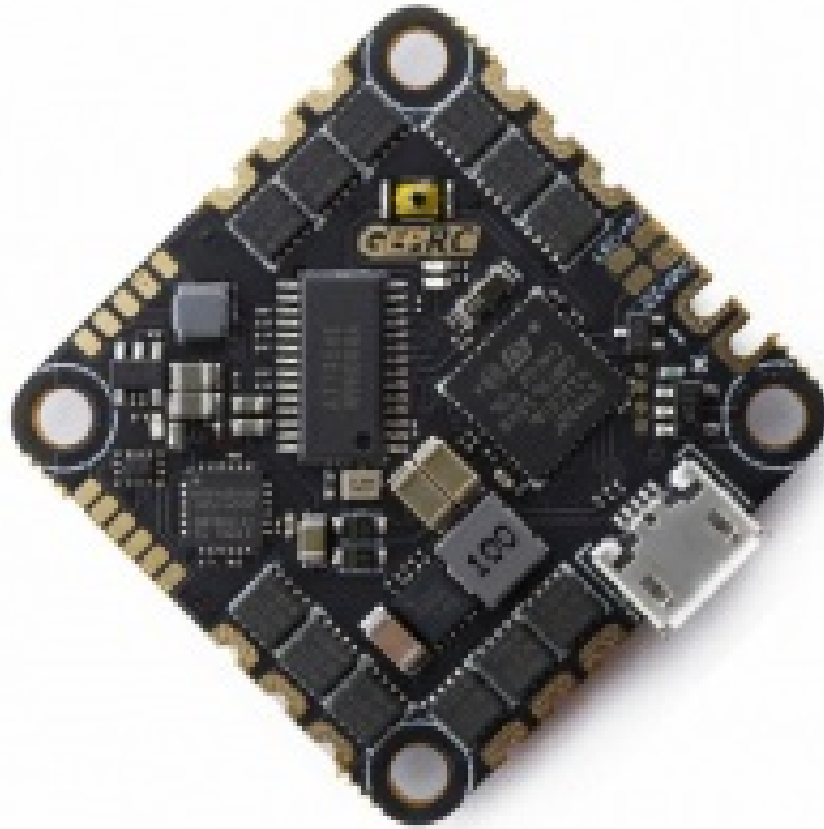
GEPRC GEP-20A-F4 Toothpick Flight Controller Manual

[Home](#) » [GEPRC](#) » GEPRC GEP-20A-F4 Toothpick Flight Controller Manual 

Contents

- [1 GEPRC GEP-20A-F4 Toothpick Flight Controller Manual](#)
- [2 SPECS:](#)
- [3 Instruction Diagram](#)
- [4 Receiver](#)
- [5 F.Port](#)
- [6 TBS Crossfire Nano RX](#)
- [7 DSM/DSMX](#)
- [8 IBUS](#)
- [9 ESC](#)
- [10 VTX](#)
- [11 LED & Buzzer](#)
- [12 Camera](#)
- [13 Read More About This Manual & Download PDF:](#)
- [14 Related Posts](#)

GEPRC GEP-20A-F4 Toothpick Flight Controller Manual



SPECS:

Model Name:GEP-20A-F4

MCU: STM32F411

IMU: MPU6000 gyro/accelerometer (SPI)

FC Firmware target:MATEKF411

OSD: BetaFlight OSD w/ AT7456E chip

Baro:NO

Current Monitoring : Support

Betaflight OSD : Support

External Buzzer : Support

LED : Support

USB Port: MicroUSB

BEC Output: 5V@1A

Integrated LC Filter

ESC MCU: BB21F16G

Continuous current: 20A

Peak current: 30A

Input:2-4s lipo

Supports Dshot600 ,Oneshot,Multishot

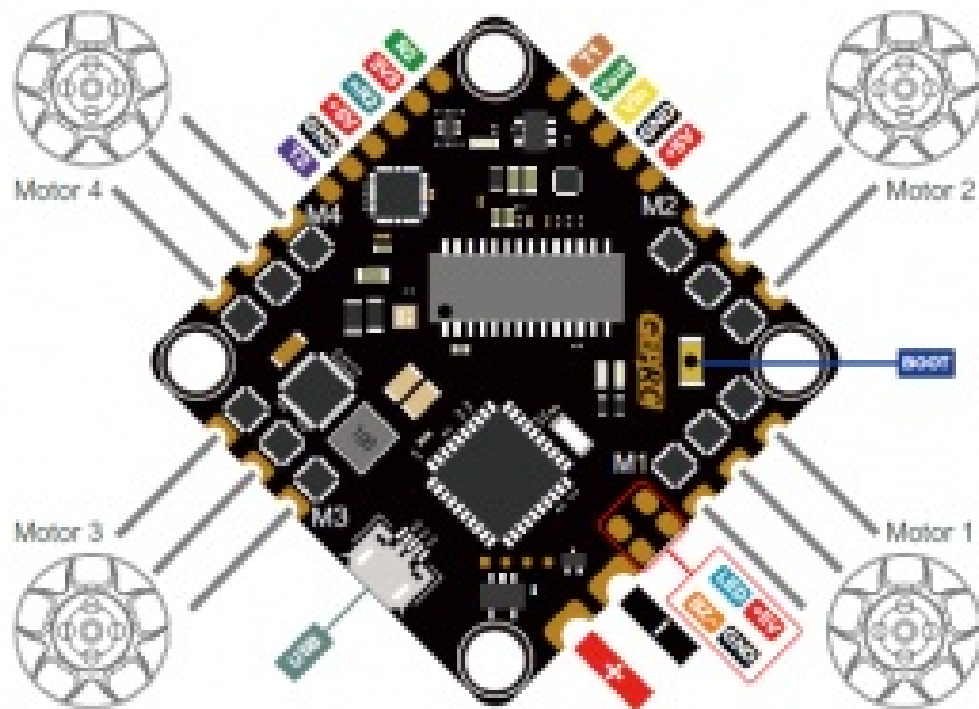
Current meter: 210

Target: G_H_30

Size: 32x32mm board,26.5mm mounting holes (M2)

Installing Hole: 26.5x26.5mm, M2

Instruction Diagram

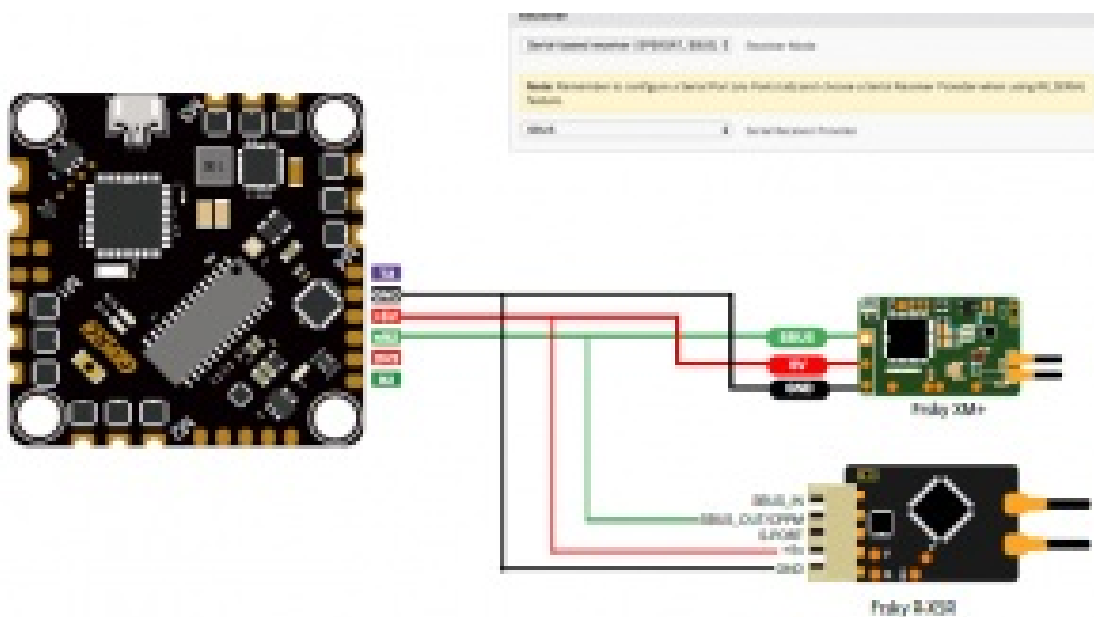


Receiver

Notes: Not all combinations are valid. After the flight controller firmware is loaded, the serial port configuration will be reset.
Notes: Do **NOT** disable SBUS 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/ID	Serial Rx	Telemetry Output	Sensor Input	Port Mode
USB NCP	☒ 115200	☐	Disabled • AUTO	Channel • AUTO	Disabled • AUTO
UART1	☐ 115200	☐	Disabled • AUTO	Channel • AUTO	VTX (RC) Trans • AUTO
UART2	☐ 115200	☒	Disabled • AUTO	Channel • AUTO	Disabled • AUTO

SBUS



F.Port

CLI: `set serialrx_halfduplex = ON`
`save`

Serial Setup window (BDS400) | Serial Setup

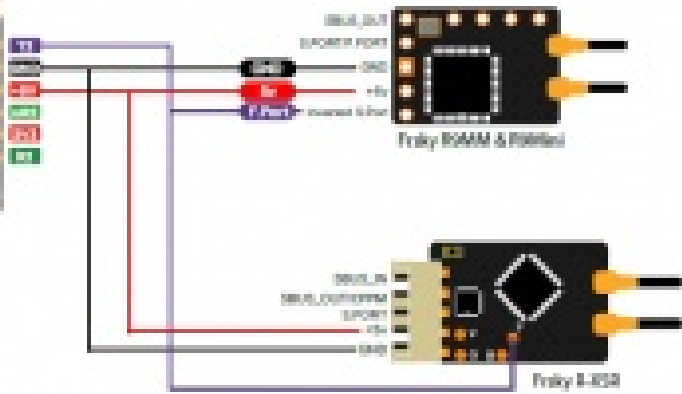
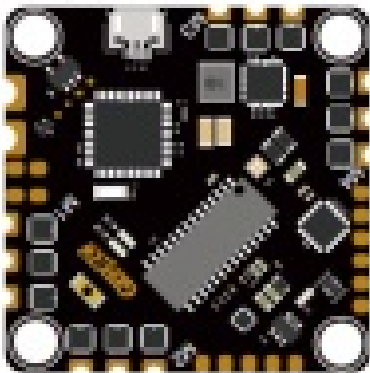
Make sure that a receiver is connected to the correct pins on the receiver board when using the Serial Setup window.

Frsky R200 |

Serial Receiver

Make sure that the receiver is connected to the correct pins on the receiver board when using the Serial Setup window.

Serial Receiver	Receiver Type
☐ DSM2	DSM2
☐ DSMX	DSMX
☐ Frsky	Frsky
☒ Frsky S-BUS	Frsky S-BUS



TBS Crossfire Nano RX

Serial Setup window (BDS400) | Serial Setup

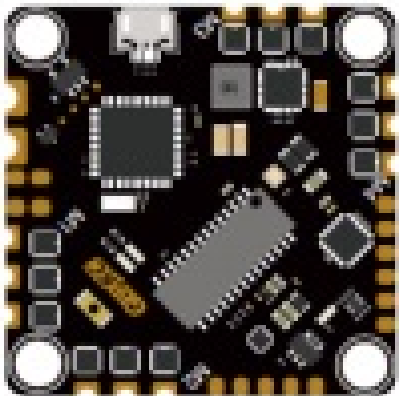
Make sure that a receiver is connected to the correct pins on the receiver board when using the Serial Setup window.

DSM2 |

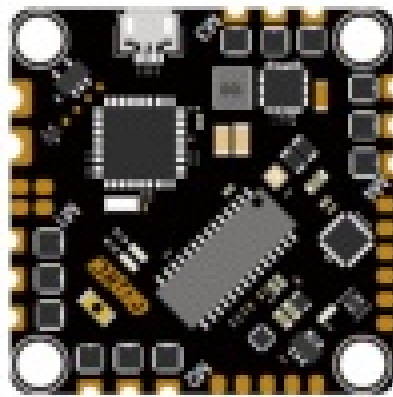
Serial Receiver

Make sure that the receiver is connected to the correct pins on the receiver board when using the Serial Setup window.

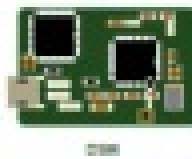
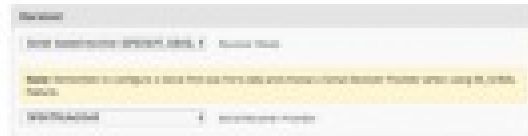
Serial Receiver	Receiver Type
☐ DSM2	DSM2
☐ DSMX	DSMX
☐ Frsky	Frsky
☒ TBS Crossfire	TBS Crossfire



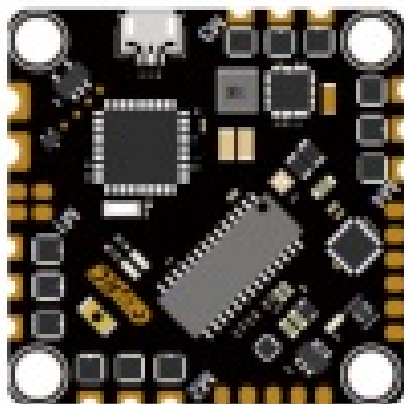
DSM/DSMX



T2
GND
+5V
+R2
3V3
R2



IBUS

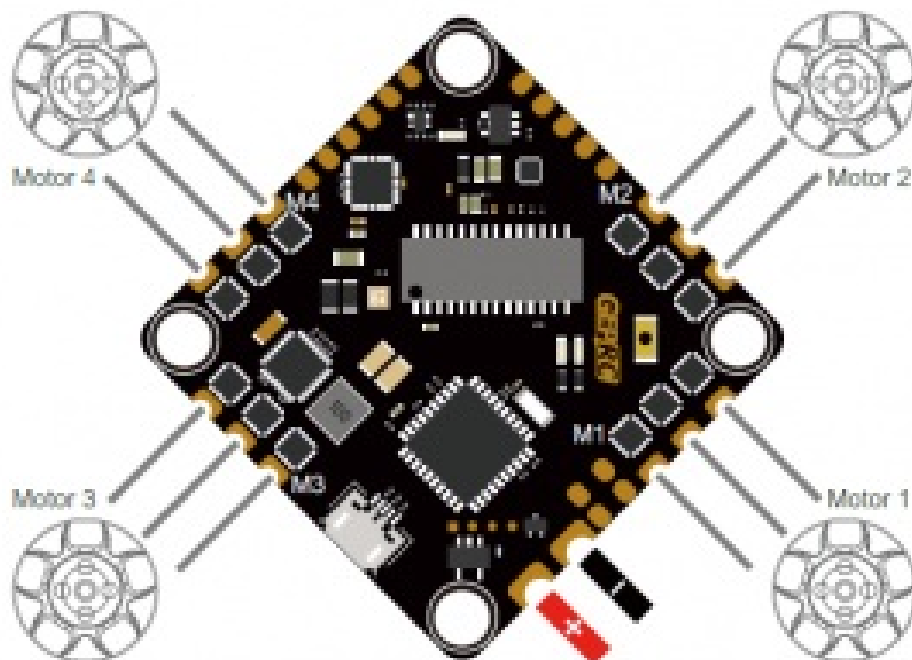


T2
GND
+5V
+R2
3V3
R2



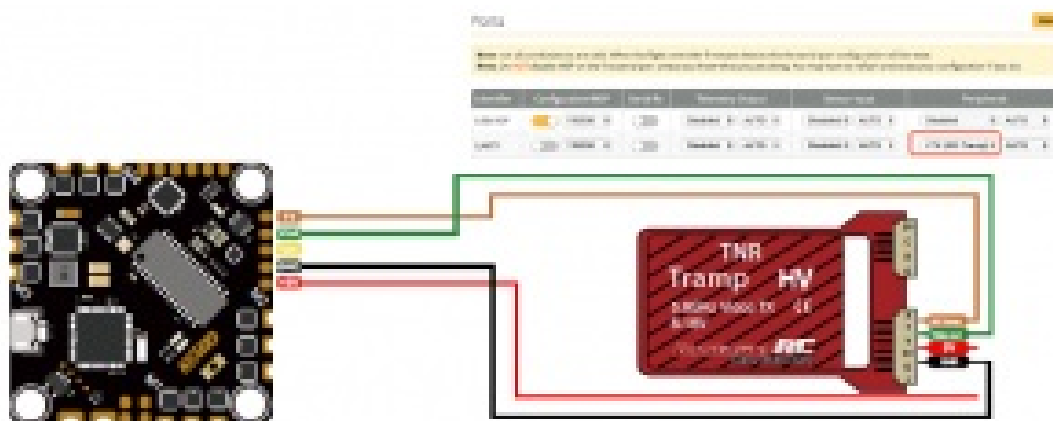
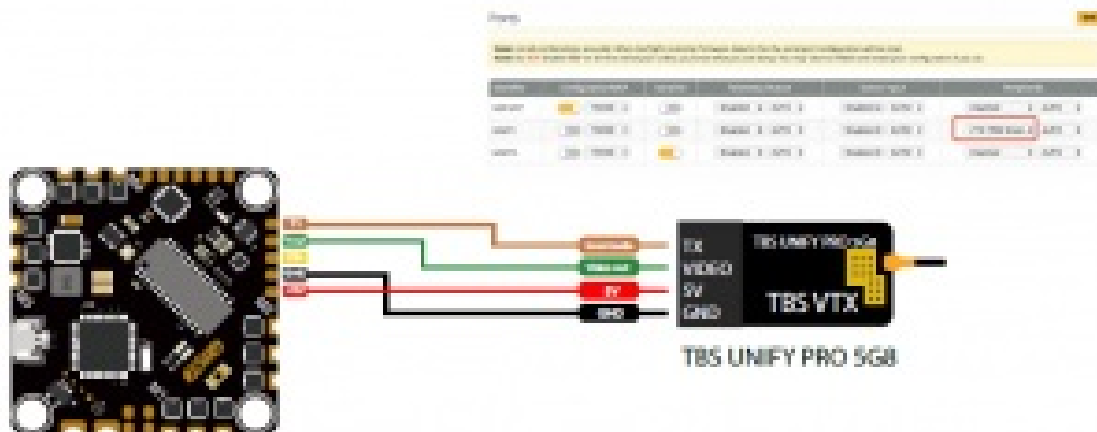
FlySky FSIM05-V2

ESC

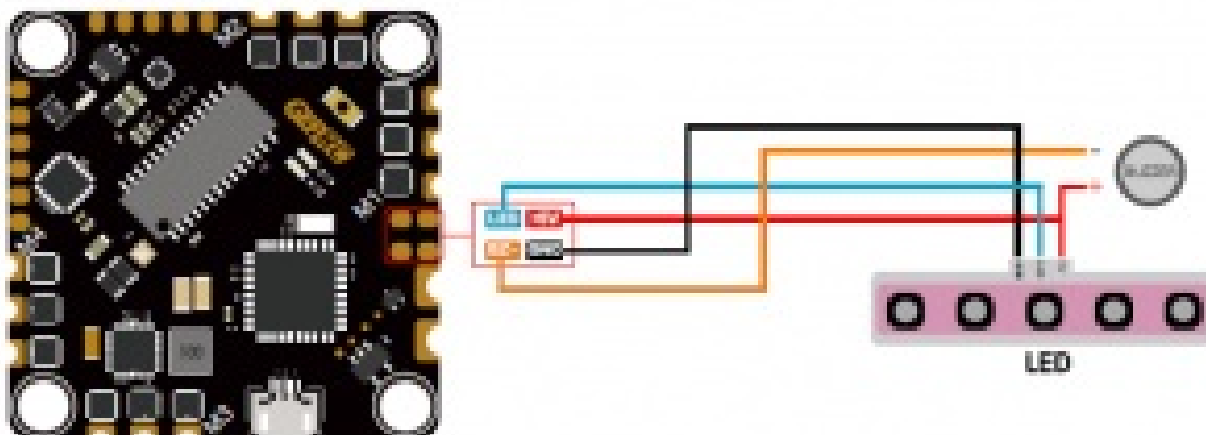


2-4S Lipo battery
BLHelis_S 20A 4in1 ESC(32*32 mm)

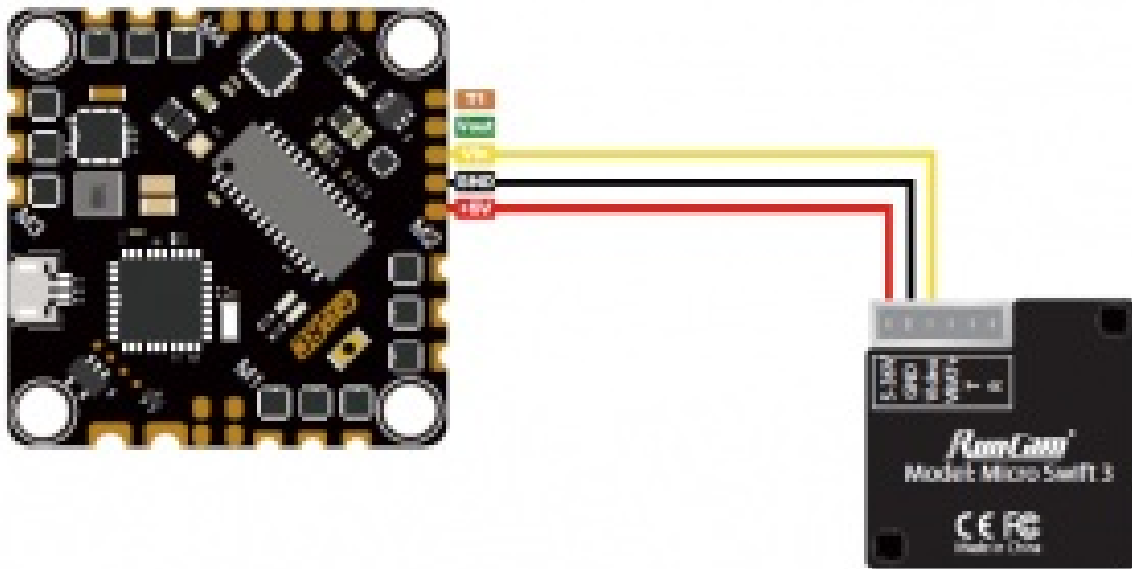
VTX



LED & Buzzer



Camera



Official
website



www.geprc.com

Manual



geprc.com/support

facebook



facebook.com/geprc

Instagram



instagram.com/geprc

Read More About This Manual & Download PDF:

GEPRC GEP-20A-F4 Toothpick Flight Controller Manual – [Download \[optimized\]](#)

GEPRC GEP-20A-F4 Toothpick Flight Controller Manual – [Download](#)