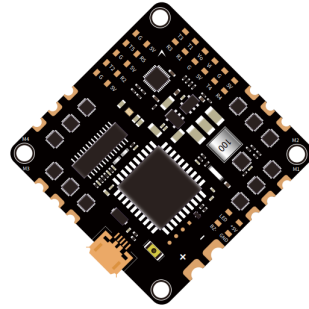
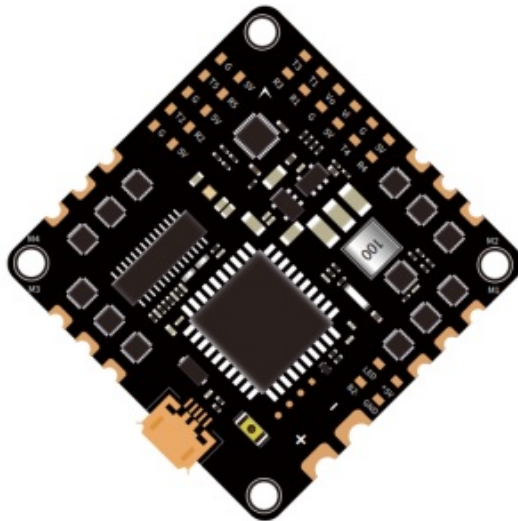




GEPRC GEP-35A-F7 Flight Controller User Manual

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GEPRC GEP-35A-F7 Flight Controller User Manual



SPECS:

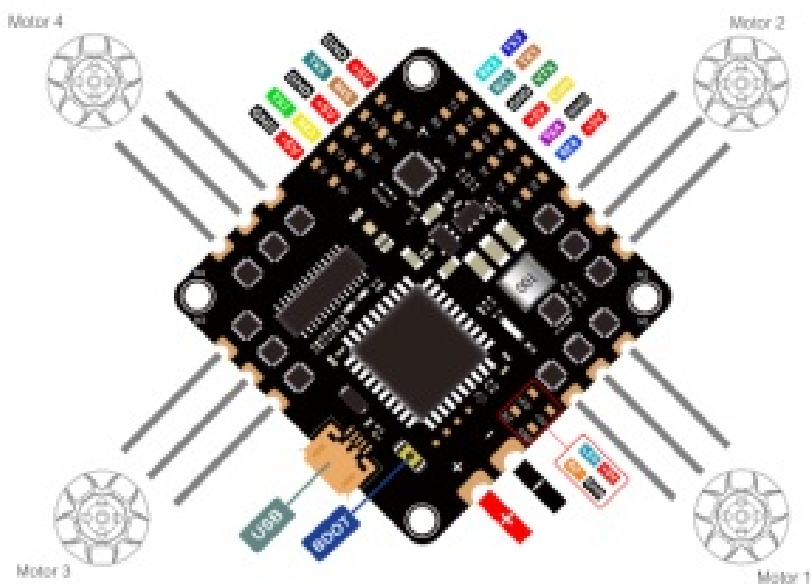
- **Model Name** GEP-35A-F7
- **MCU:** STM32F722
- **IMU:** MPU6000 gyro/accelerometer(SPI)
- **Firmware target** GEPRCF722
- **OSD:** Betaflight OSD w/ AT7456Ev
- **Current** YES
- **OSD** YES
- **Beeper** YES
- **LED** YES
- **USB** micro USB

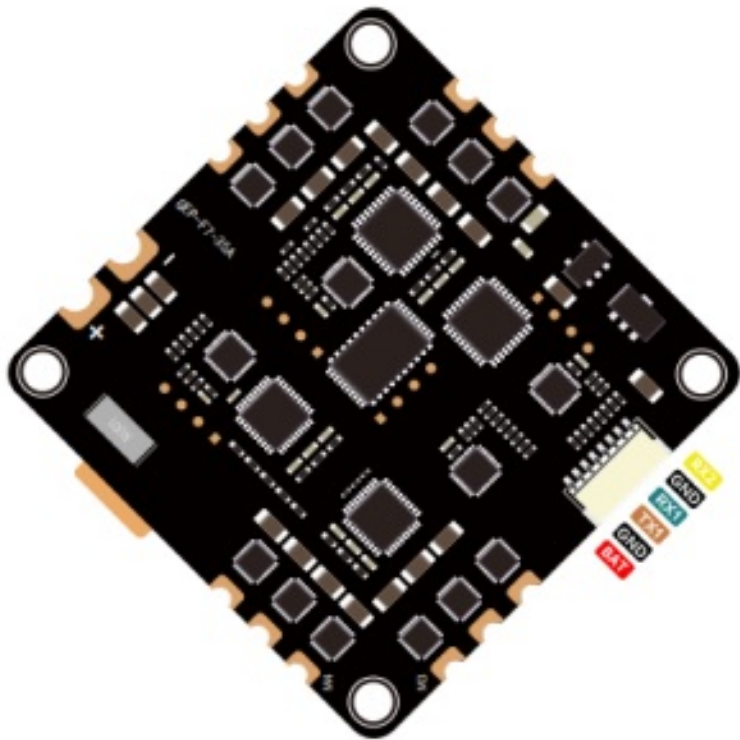
- **BEC output** 5V@1A
 - **Intergrated LC Filter**
- ESC MCU** BB21F16G
- Continuous current** 35A
- MAX current** 45A (10s)
- Input** 2~6S
- Supports** Dshot600,Oneshot,Multishot
- Current meter** 210
- Traget** G_H_30
- Size** 32x32mm Board
- Installing Hole** 26.5×26.5mm,M2
- Weight** 8.3g

Contents

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- [2 DJI Digital FPV System](#)
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Instruction Diagram



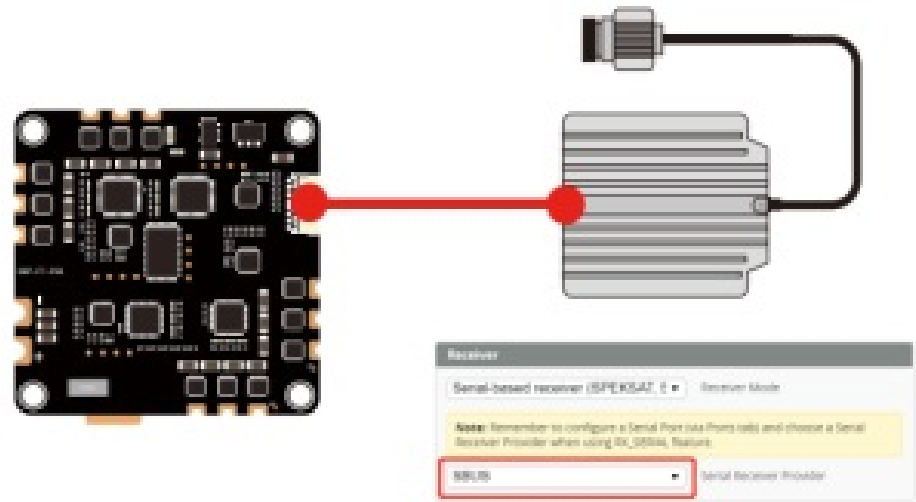


DJI Digital FPV System

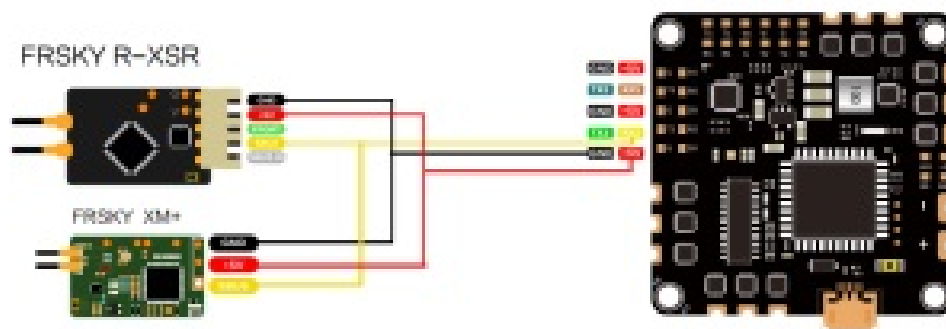
Note: not all combinations are valid. When the flight controller firmware detects this the serial port configuration will be reset.

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	Sensor Input	Peripherals
USB/VCP	115200 ▾		Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART1	115200 ▾		Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART2	115200 ▾		Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART3	115200 ▾		Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART4	115200 ▾		Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART5	115200 ▾		Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾



Receiver



Receiver

Serial-based receiver (SPEKSAT, 8) 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

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.

Interface	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	☒ 115200	☐	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART1	☐ 115200	☐	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART2	☐ 115200	☒	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART3	☐ 115200	☐	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART4	☐ 115200	☐	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART5	☐ 115200	☐	Disabled AUTO	Disabled AUTO	Disabled AUTO

F. Port

CLI

```
set serialrx_halfduplex = ON
set serialrx_inverted = ON save
```

Receiver

Serial-based receiver (SPEKSAT, 5)

Receiver Mode

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

FrSky FPort

Serial Receiver Provider

Other Features

Note: Not all features are supported by all flight controllers. If you enable a specific feature, and it is disabled after you hit 'Save and Reboot', it means that this feature is not supported on your board.

INFLIGHT_ACC_CAL

In-flight level calibration

SERVO_TILT

Servo gimbal

SOFTSERIAL

Enable CPU based serial ports

SONAR

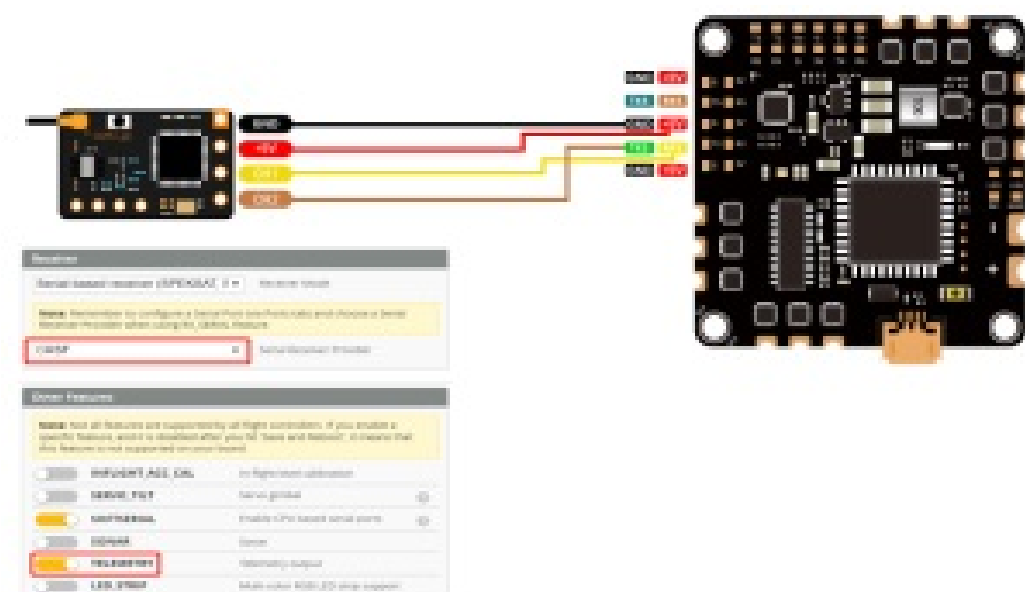
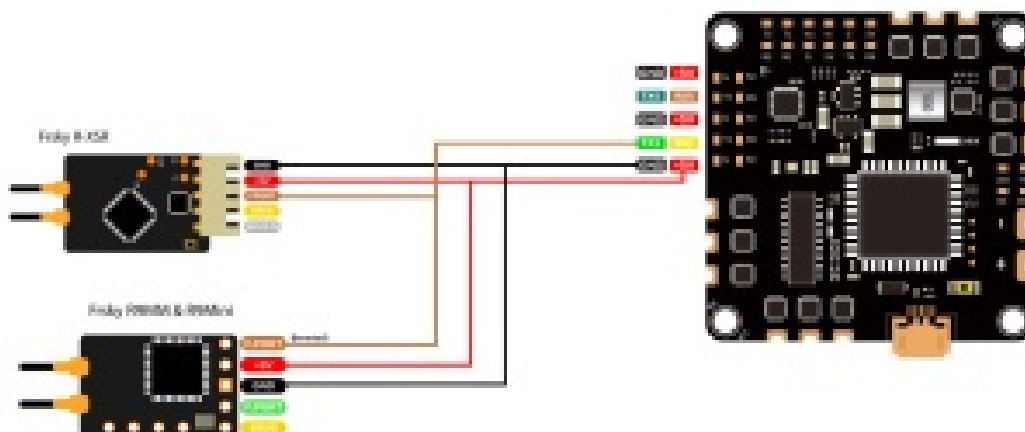
Sonar

TELEMETRY

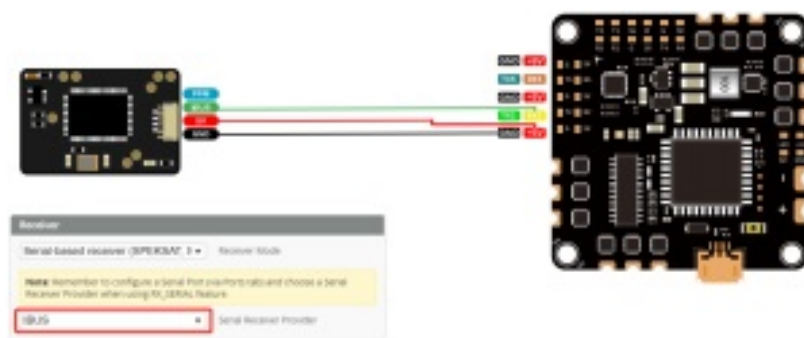
Telemetry output

LED_STRIP

Multi-color RGB LED strip support



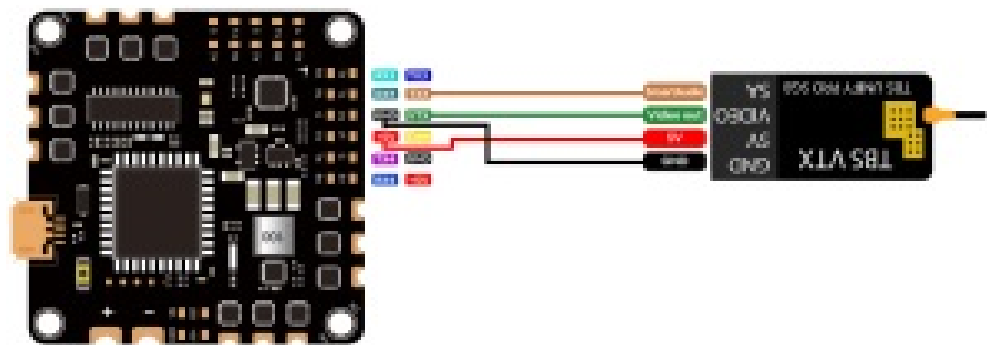
FlySky FSA8S V2



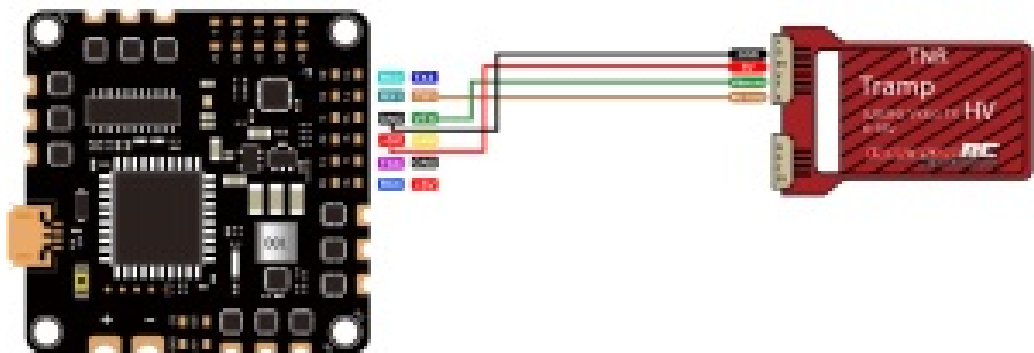
VTX

Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	☒ 115200	☐	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART1	☐ 115200	☐	Disabled AUTO	Disabled AUTO	VTx (TBS 5in) AUTO
UART2	☐ 115200	☒	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART3	☐ 115200	☐	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART4	☐ 115200	☐	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART5	☐ 115200	☐	Disabled AUTO	Disabled AUTO	Disabled AUTO

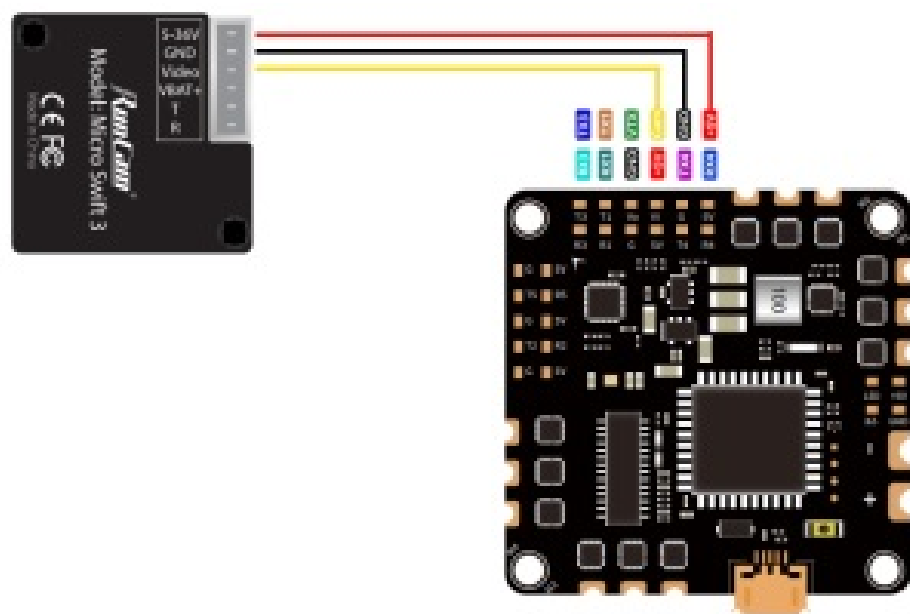
TBS UNIFY PRO 5GB



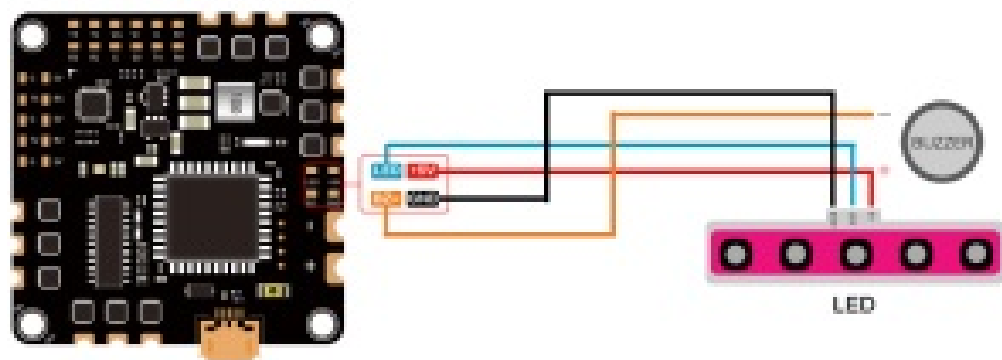
Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	☒ 115200	☐	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART1	☐ 115200	☐	Disabled AUTO	Disabled AUTO	VTx (4in) AUTO
UART2	☐ 115200	☒	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART3	☐ 115200	☐	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART4	☐ 115200	☐	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART5	☐ 115200	☐	Disabled AUTO	Disabled AUTO	Disabled AUTO



Camera

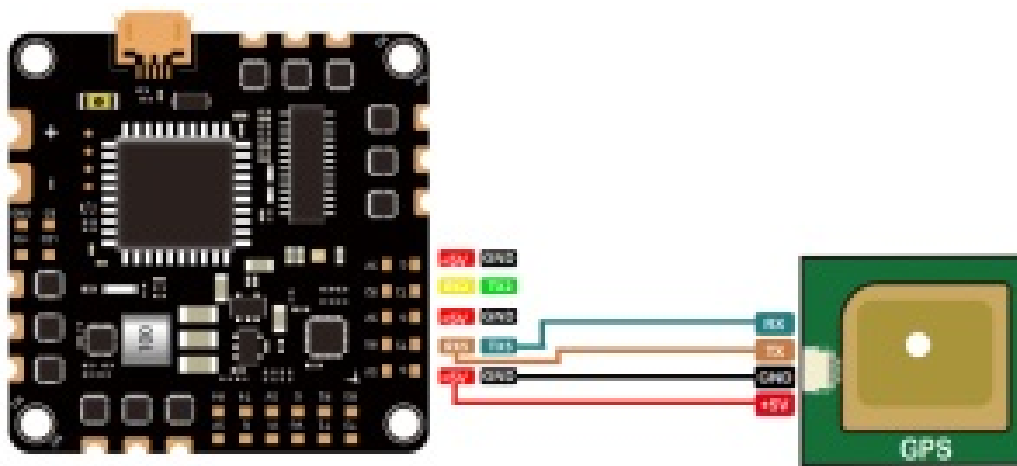


LED and Buzzer



GPS

Identifier	Configuration/MSP	Serial Rx	Interfacing Output	Sensor Input	Peripherals
USB MCP	☒ 115200 ▾	☐	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART1	☐ 115200 ▾	☐	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART2	☐ 115200 ▾	☒	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART3	☐ 115200 ▾	☐	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART4	☐ 115200 ▾	☐	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾	Disabled ▾ AUTO ▾
UART5	☐ 115200 ▾	☐	Disabled ▾ AUTO ▾	GPS ▾ AUTO ▾	Disabled ▾ AUTO ▾



Official website



Manual



Facebook



Instagram



Documents / Resources

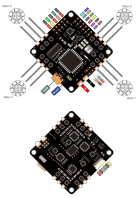
GEPRC
3-in-1
GEP-35A-F7
Manual



SPECS:

Model Name: GEP-35A-F7
MCU: STM32F745GT
Flash: 128MB
RAM: 512KB
UART: 1x UART
I2C: 1x I2C
SPI: 1x SPI
CAN: 1x CAN
USB: 1x USB
GPS: 1x GPS
Baro: 1x Baro
IMU: 1x IMU
Magnetometer: 1x Magnetometer
Compass: 1x Compass
Temperature: 1x Temperature
Altitude: 1x Altitude
Barometer: 1x Barometer
GPS: 1x GPS
CAN: 1x CAN
SPI: 1x SPI
I2C: 1x I2C
UART: 1x UART

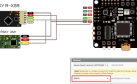
Instruction Diagram



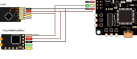
DJI Digital FPV System



Receiver



I/Port



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GEP-35A-F7, Flight Controller