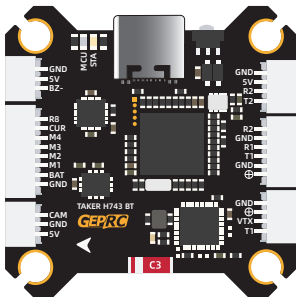
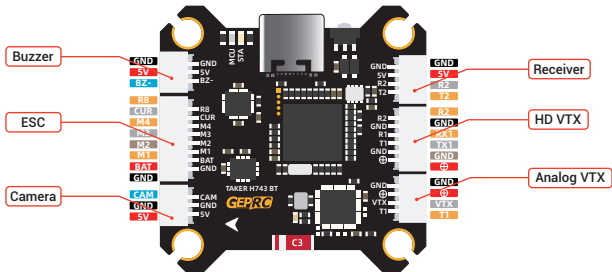


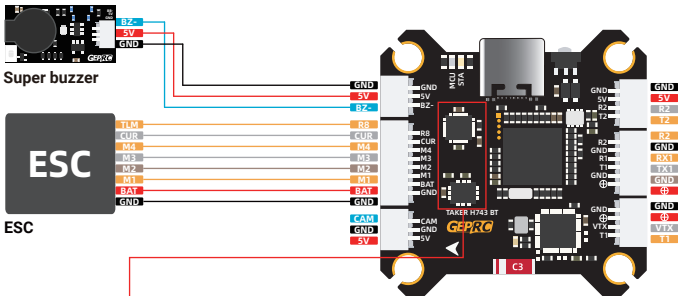
Specs

| | |
|----------------|--------------------------------------|
| Item name: | TAKER H743 BT Flight Controller |
| MCU: | STM32H743 |
| IMU: | MPU6000 + ICM42688-P(dual gyro) |
| Black Box: | 512M onboard |
| Bluetooth: | Supported |
| Barometer: | Supported |
| BEC Output: | 5V@3A,12V@2.5A dual BEC |
| Target: | GEPRC_TAKER_H743 |
| Size: | 38.5x38.5mm |
| Mounting: | 30.5x30.5mm |
| Input Voltage: | 3-6S LiPo |
| UART Ports: | 7 groups (UART3 fixed for Bluetooth) |



Interface definition





Super buzzer



ESC

The MPU6000 is the first gyro
 The ICM42688-P is the second gyro
 (BF and INAV firmware support only one gyro)

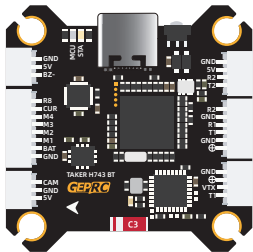
Board and Sensor Alignment

Roll Degrees: 0 Pitch Degrees: 0 Yaw Degrees: 0

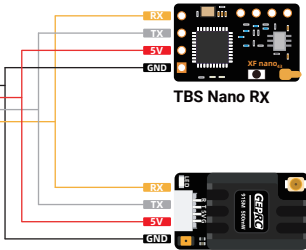
First: GYRO/ACCEL CW 270° First GYRO Second GYRO: CW 0°

First: MAG Alignment

Receiver



GND
5V
R2
T2



TBS Nano RX

GPRC ELRS

- Setup
- Ports
- Configuration
- Power&Battery
- Failsafe

| Identifier | Configuration/MSP | Serial RX |
|------------|--|-------------------------------------|
| USB VCP | <input checked="" type="checkbox"/> 115200 ▼ | <input type="checkbox"/> |
| UART1 | <input type="checkbox"/> 115200 ▼ | <input type="checkbox"/> |
| UART2 | <input type="checkbox"/> 115200 ▼ | <input checked="" type="checkbox"/> |

Receiver

Serial (Via UART) Receiver Mode

•The UART for the receiver must be set to 'Serial RX' (in the Ports tab)
•Select the correct data format from the drop -down, below:

CRSF Serial Receiver Provider

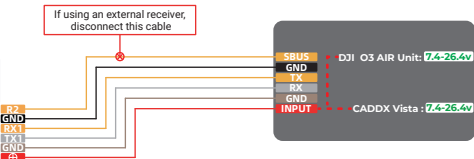
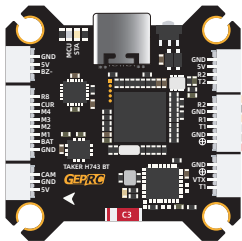
| Identifier | Configuration/MSP | Serial RX |
|------------|--|-------------------------------------|
| USB VCP | <input type="checkbox"/> 115200 ▾ | <input type="checkbox"/> |
| UART1 | <input checked="" type="checkbox"/> 115200 ▾ | <input type="checkbox"/> |
| UART2 | <input type="checkbox"/> 115200 ▾ | <input checked="" type="checkbox"/> |

Receiver

Serial (Via UART) ▾ Receiver Mode

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

SBUS ▾ Serial Receiver Provider

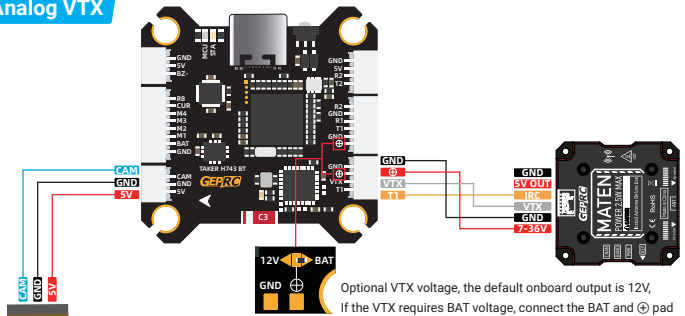


CLI Commands:

```
set osd_displayport_device = MSP
set vcd_video_system = HD
SAVE
```

to enable high-definition OSD transmission

Analog VTX

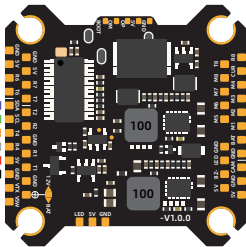


Optional VTX voltage, the default onboard output is 12V, If the VTX requires BAT voltage, connect the BAT and ⊕ pad

| Identifier | Configuration/MSP | | Peripherals | |
|------------|--|-------|---------------|--------|
| USB VCP | <input checked="" type="checkbox"/> 115200 ▾ | | Disabled ▾ | AUTO ▾ |
| UART1 | <input type="checkbox"/> 115200 ▾ | | VTX,IRC Tmp ▾ | AUTO ▾ |
| UART2 | <input type="checkbox"/> 115200 ▾ | | Disabled ▾ | AUTO ▾ |

GPS

GPS



GPS

GPS GPS for navigation and telemetry ⓘ

Note: Remember to configure a Serial Port(via Ports tab)when using GPS feature.

UBLOX Protocol

Auto Baud

Auto Config

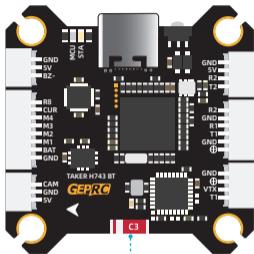
Use Galileo ⓘ

Set Home Point Once ⓘ

None Ground Assistance Type

| Identifier | Configuration/MSP | | Sensor Input | |
|------------|-----------------------------------|-------|--------------|----------|
| UART3 | <input type="checkbox"/> 115200 ▼ | | Disabled ▼ | AUTO ▼ |
| UART4 | <input type="checkbox"/> 115200 ▼ | | GPS ▼ | 115200 ▼ |

Bluetooth



| Identifier | Configuration/MSP | Serial RX |
|------------|--|-------------------------------------|
| USB VCP | <input type="checkbox"/> 115200 | <input type="checkbox"/> |
| UART1 | <input type="checkbox"/> 115200 | <input type="checkbox"/> |
| UART2 | <input type="checkbox"/> 115200 | <input checked="" type="checkbox"/> |
| UART3 | <input checked="" type="checkbox"/> 115200 | <input type="checkbox"/> |

CAUTION:

- 1 All wires should try to avoid the gyroscope, so as not to affect the normal work of the gyroscope.
 - 2 After soldering, please check that all connections are correct to avoid damage after power-on.
-



facebook

facebook.com/geprc



Official
website

www.geprc.com



Instagram

instagram.com/geprc



You Tube

youtube.com/geprc



Manual

geprc.com/support