

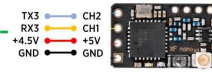
GOKU F745 AIO V1.2

—GOKU FC SERIES—
GOKU F745 AIO
GOKU
V1.2 Version

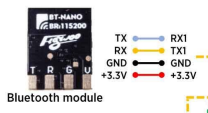
F745AIO FC PARAMETER

- MCU: STM32F745 32-bit processor, 216MHz, 1MB Flash
- IMU: MPU6000 (SP)
- Barometer: BHP280
- Onboard LED: WS2812*4
- USB VCP Driver (all UARTs usable simultaneously; USB does not take up a UART)
- 7 hardware UARTS (UART1,2,3,4,5,6,7)
- Supports serial receivers (SBUS, iBus, Spektrum, Crossfire) only.
- PPM and PWM receivers are not supported.
- Onboard 8Mbytes for Blackbox logging
- Firmware: FLYWOODF745

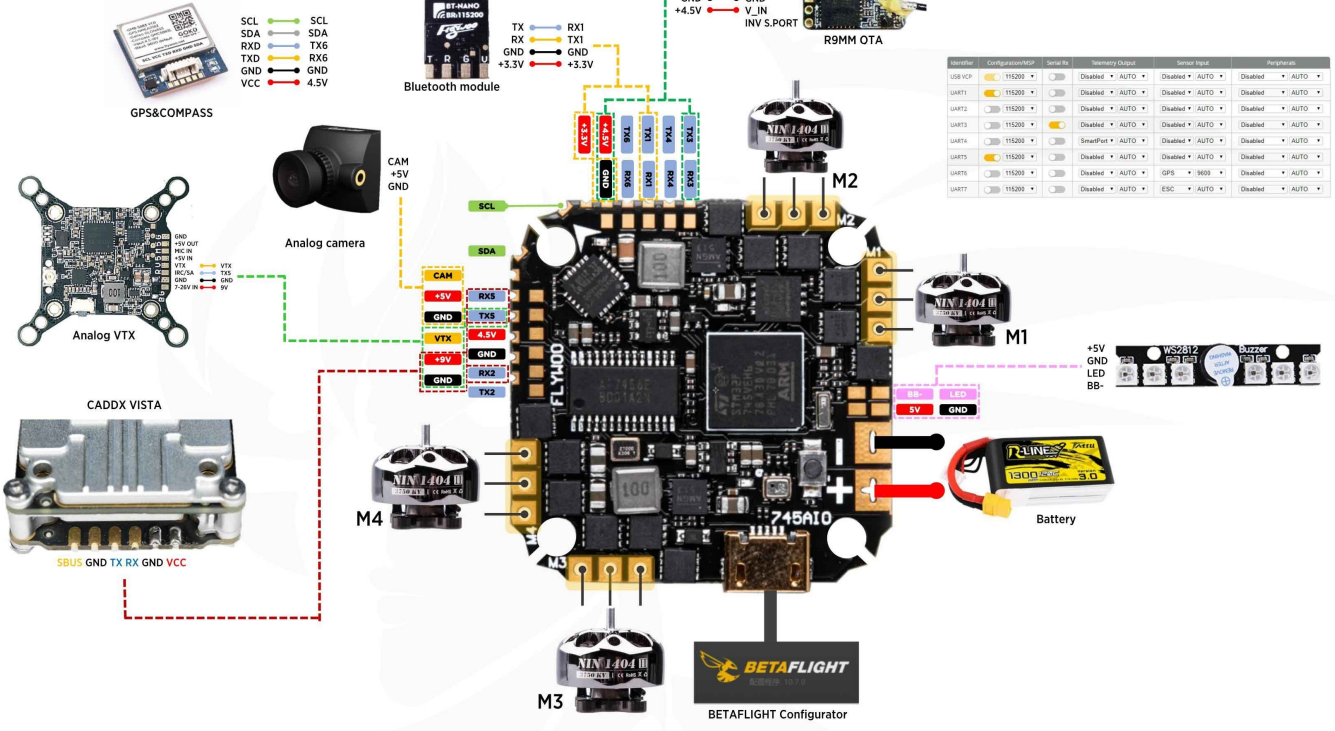
- 9V Power Out: 1.5A max
- 5V Power Out: 2.0A max
- 3.3V Power Out: 0.5A max
- Dimensions: 33.5x33.5mm
- Mounting Holes: Standard 25.5/25.5mm square to center of holes
- Weight: 8.5g
- Built-in 40A BL_32 4in1 ESC
- Support BLheli / BLHELl_32
- Support PWM, OneShot125, OneShot42, Multishot, Dshot1150, Dshot300, Dshot600, Dshot1200
- Input Voltage: 2-6S Lipo
- Continuous Current: 40A
- Firmware: BLHELl_32



This board has 7 UARTs
UART 1 - Bluetooth module
UART 2 - AIRUNIT/VISTA SBUS IN
UART 3 - RX(SBUS/iBUS/DSM/CRSF)
UART 4 - FRSKY S.PORT/E-PORT
UART 5 - AIRUNIT/VISTA OSD/IRC/SA
UART 6 - GPS Serial port
UART 7 - Built-in ESC telemetry



Identifier	Configuration/MSP	Serial Rx	Secondary Output	Sensor Input	Program
USB VCP	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART1	<input type="checkbox"/> 115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART2	<input type="checkbox"/> 115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART3	<input type="checkbox"/> 115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART4	<input type="checkbox"/> 115200	<input type="checkbox"/>	SmartPort	AUTO	Disabled
UART5	<input type="checkbox"/> 115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART6	<input type="checkbox"/> 115200	<input type="checkbox"/>	Disabled	GPS	1608
UART7	<input type="checkbox"/> 115200	<input type="checkbox"/>	Disabled	ESC	AUTO

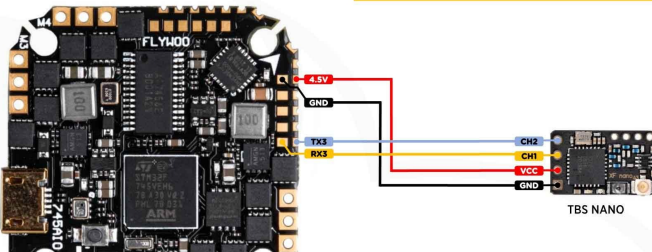


Warning

When you receive The FC, please follow the steps below to check if the FC function is complete before soldering and updating the firmware.

- Place the FC horizontally and connect to Betaflight. Perform calibration and check if the direction is correct.
- Open the sensor interface and check whether the fluctuations of the gyroscope, accelerometer, and barometer (If Available) are normal
- If you need to upgrade the firmware, please export your FC settings before upgrading. To prevent loss of configuration. At the same time, please use the correct firmware according to the target given in the manual.

TBS



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 type="checkbox"/>
UART3	<input type="checkbox"/> 115200	<input checked="" type="checkbox"/>

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.

CRSF Serial Receiver Provider