

Features:

STM32 F745 MCU - faster than the current F3 and F4 processors

Two gyros on the flight controller: an MPU6000 for sampling up to 8khz and ICM20608 for sampling up to 32khz

Built in betafight OSD

Built in Current sensor

Built in 5V LC-power filter

Built in Barometer

D-shot esc Support (Dshot600 Ready)

36x36mm, mount holes 30.5x30.5mm

Weight: 6.6g

SD card reader for recording black box data (SD card not included)

Supports 2-4s natively, 5-6s with 220uf 35V capacitor

5v/1A regulator

Support PPM/SBUS/IBUS/DSM2/DSMX protocol receiver

LED_strip ready pin headers

Buzzer ready pin headers

Smart port ready Pin headers

Compatible 4 in 1 ESC with JST-SH 1.0 6pin housing

Firmware version: Betaflight 3.2.0 OmnibusF7

Package include:

Omnibus F7 Pro flight controller x1

M3 screws *4

M3*5+5 Nylon column *4

M3 nut *4

Receiver Configuration:

1. Sbus receiver / Ibus receiver / DSM2 receiver / DSMX receiver please enable Serial RX for UART1

| 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 checked="" 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 ▼ |
| UART6 | <input type="checkbox"/> MSP 115200 ▼ | <input type="checkbox"/> Serial RX | Disabled ▼ AUTO ▼ | Disabled ▼ AUTO ▼ | Disabled ▼ AUTO ▼ |

Please set Receiver Mode to Serial-based receiver and select correct Serial receiver Provider

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

2. PPM Receiver please connect to PPM pad and set Receiver Mode to PPM RX input

Receiver

PPM RX input ▼ Receiver Mode