

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 betaflyght 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:

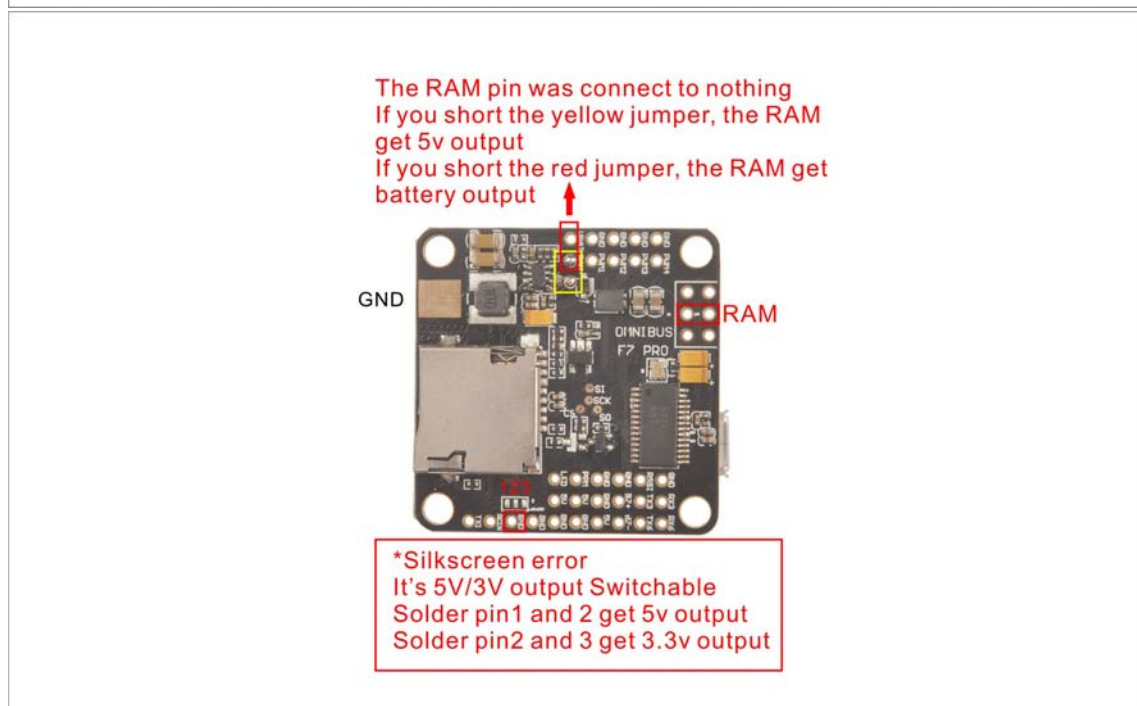
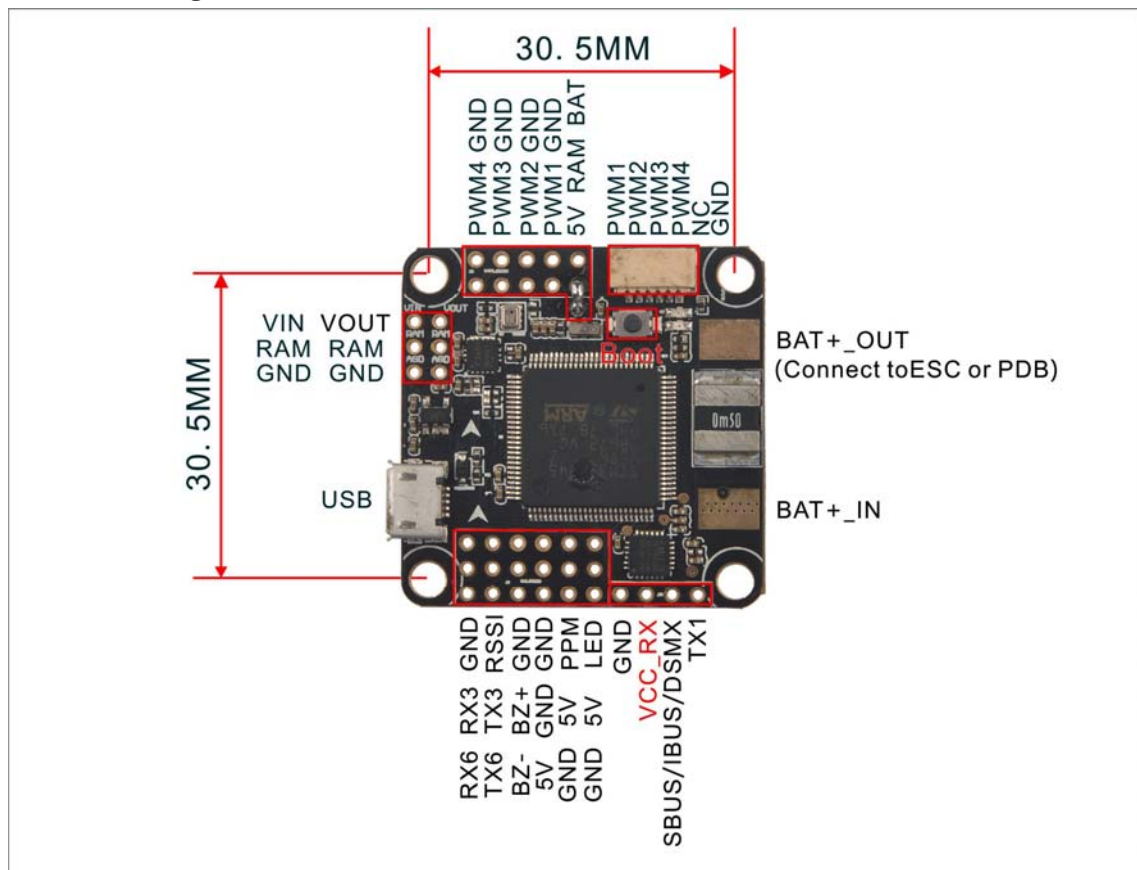
Omnibus F7 Pro flight controller x1

M3 screws *4

M3*5+5 Nylon column *4

M3 nut *4

Connection diagram:



Suggest to use the new version Betaflight Configurator GUI

<https://github.com/betaflight/betaflight-configurator>

Rcgroups discussion:

<https://www.rcgroups.com/forums/showthread.php?2884546-Omnibus-f7>

Receiver Configuration:

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

Ports

WIKI

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.

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