

# OMNIBUS F4 Pro(v2)

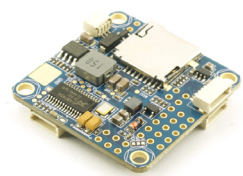
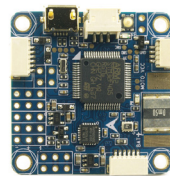
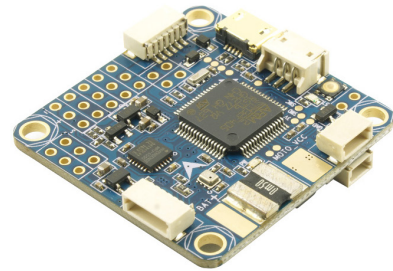
Pro version of OMNIBUS F4 v2, using F405 with SPI Gyro MPU6000, SD Card as blackbox on SPI bus too.

Classic OMNIBUS design, using F4 MCU controls OSD over SPI bus in DMA mode, OSD Configuration has been incl. in Betaflight GUI.

Build in BEC and current sensor

Supported by BETAFLIGHT and iNAV

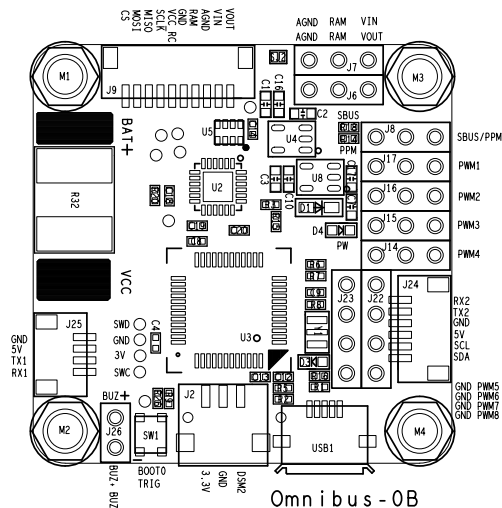
- STM32 F405 MCU, Runs Betaflight 3.0 firmware
- SBUS/PPM input (Pinheaders)
- 6PWM output (1-4Pinheaders and Sh1.0 Plug, 5-6 as Pinheaders)
- Only 36x36mm, mount holes 30.5x30.5mm
- with BARO (BMP280)
- SPI Sensor MPU6000



## Firmware update

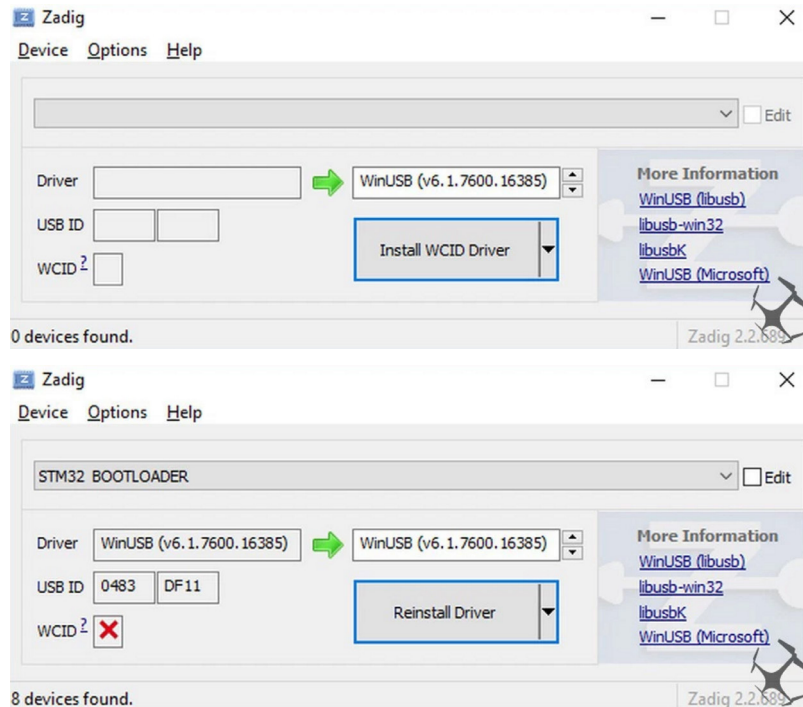
OMNIBUS F4 Pro has been supported by Betaflight v3.1, you can use Target "**OMNIBUS F4SD**" to update the firmware.

## Pin map



# How to use the onboard USB port updated firmware in GUI on windows

To flash the firmware you have to enter the so called DFU mode. On Windows 10 I had to use a tool called Zadig (download and start it) to be able to switch drivers for DFU mode to work. In order to switch drivers you have to take the following steps.



- Push BOOT button on the flight controller.
- Plug-in the USB cable (the red LED should not be as bright as normally).
- Fire up Zadig and hit "Options" and then "List All Devices".
- From the list choose "STM32 BOOTLOADER".
- Under "Driver" choose "WinUSB" on the right and hit "Reinstall Driver".
- Close Zadig, disconnect the flight controller, close all Google Chrome instances.

\* Pictures and text made by : Aerosurfer

<http://www.aerosurfer.ch/2016/07/25/omnibus-f3-flight-controller/>