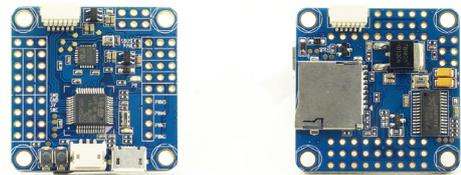


OMNIBUS F3 AIO v1.1

The Omnibus flight controller uses the MPU6000 over SPI for the best possible flight performance. If you haven't already seen it, you should checkout Josh's awesome video on different IMUs. Also onboard are a barometer and AB7456 OSD chip for the BetaFlight integrated OSD.

Also onboard is a high performance 5v, 1.5a STMicrocontroller L78 voltage regulator, so you can plug the flight battery right into the flight controller, without a PDB.

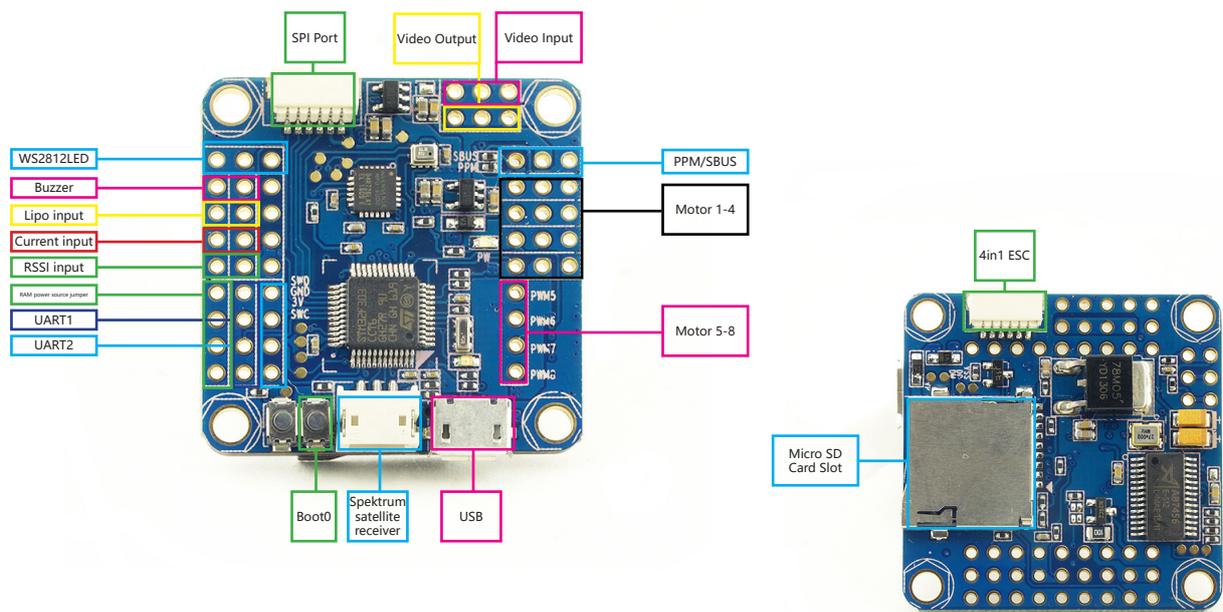
- STM32 F303 MCU, Runs Betaflight firmware(supported from v3.0)
- Barometer BMP280 (Optional)
- MPU6000 Over SPI Bus
- 4PWM output as PLUG and Pinheaders, 4x PWM output as pinheaders
- Only 35x35mm, mount holes 30.5x30.5mm
- SD card slot
- Supports Lipo direct plug in (up to 4S)
- STM32 controls OSD chip over SPI in DMA mode, less CPU using, faster rate
- external SPI to control VTX or RX



Firmware update

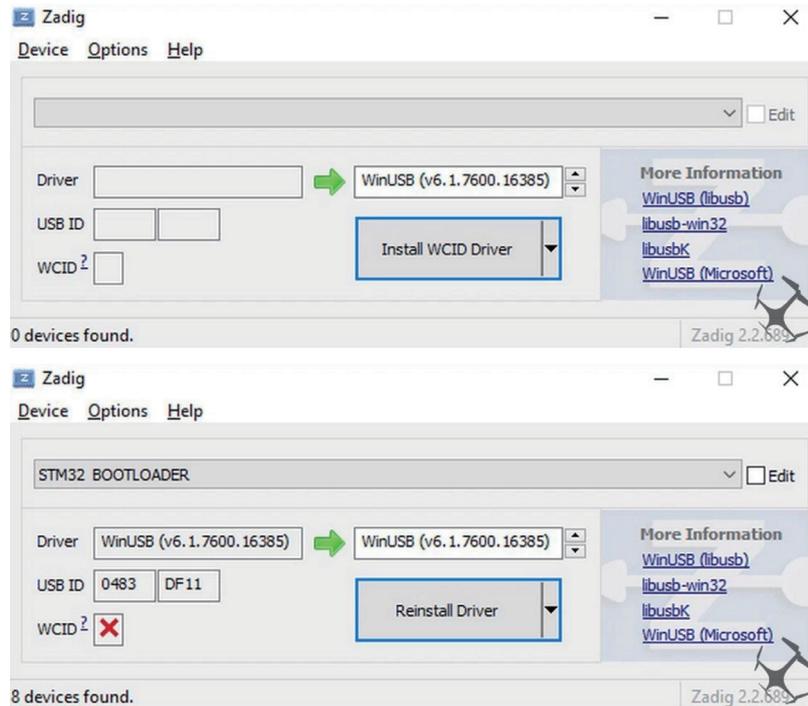
OMNIBUS F3AIO v1.1 will be supported by Betaflight v3.0, you can use Target "OMNIBUS" to update the firmware. Before Betaflight v3.0 release, you can find the updated firmware in our product page in our webshop.

Connection example



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 : Aerosufer