

## Alphaswift FC Mini

### FC Specifications

- MCU: STM32H743VIH6, 480MHz , 1MB RAM, 2MB Flash
- IMU: 2x ICM42688
- Baro: Infineon **DPS365** (I2C2)
- Blackbox: MicroSD card socket (SDIO)
- 7x UARTs (1, 2, 3, 4, 6, 7, 8) with built-in inversion.
- 13x PWM outputs(including "LED" pad)
- 2x I2C
- 1x CAN
- 6x ADC (VBAT, Current, RSSI, Analog AirSpeed, Vbat2, Cur2)
- 3x LEDs for FC STATUS (Blue, Red) and 3.3V indicator (Red)
- 1x SPI3 breakout
- USB Type-C (USB2.0)
- 1x JST-SH1.0\_8pin connector (Vbat/G/Curr/Rx8/S1/S2/S3/S4)
- 1x JST-GH1.25\_4pin connector (5V/CAN-H/CAN-L/G)
- Dual Camera Inputs switch
- 5V/Vbat filtered power ON/OFF switch
- DJI FPV OSD is supported by any spare UART

### Power

- Vbat Input: 6~36V (2~8S LiPo)
- BEC: 5V 4A cont. (**Max 5A**)
- LDO 3.3V: Max **500mA**
- No Current Sensor built-in
- ADC Vbat2 pad supports Max. 69V (voltage divider: 1K:20K)
- Static power: 200mA@5V with Betaflight, 150mA@5V with ArduPilot



Layout



