

# 80127

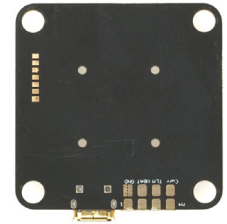
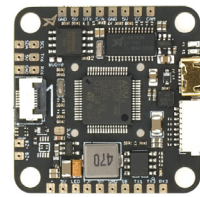
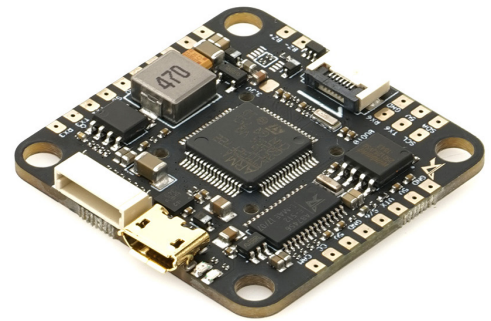
## Airbot F7

F722 / 5VBEC / Camera control / 6x UART / Flash

The Airbot F7 flight controller uses the ICM20602 over SPI for ultimate flight performance. Onboard is an AB7456 OSD chip for fully integrated BetaFlight OSD.

The Airbot F7 supports 3-6S direct LiPo input, has 6x hardware UARTs, external I2C, external SPI, camera control, onboard flash, a micro RX connector, a 4-in-1 ESC connector, and a low profile for easy installs.

- Firmware, please use Airbot F7 (will be incl. on the next release)



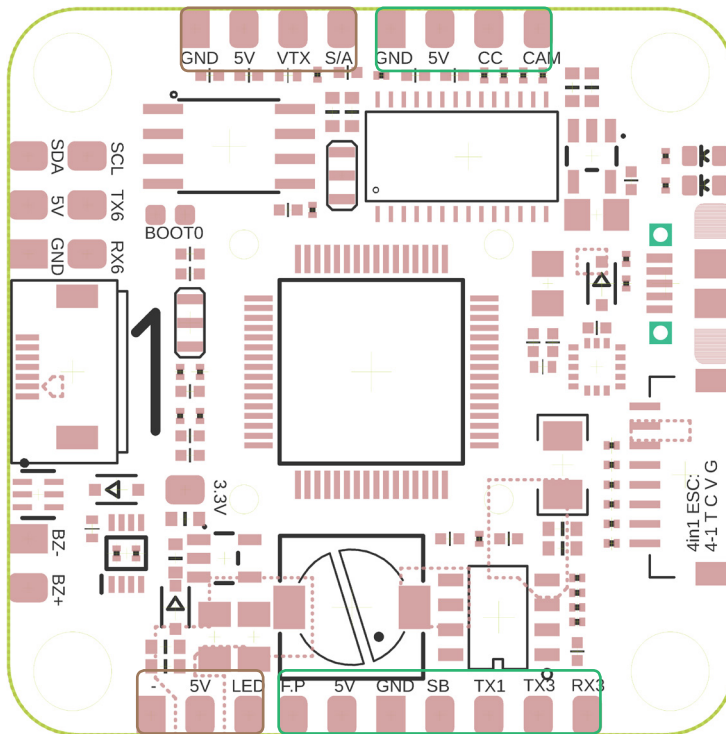
### Features:

- STM32 F722 MCU, Runs Betaflight firmware
- ICM Gyro Over SPI Bus
- 30.5\*30.5 mm Mounting holes
- Supports Lipo direct plugin (3-6S)
- Supports 5V 2A BEC output (Buck)
- STM32 controls OSD chip over SPI in DMA mode (Betaflight OSD)
- More UARTs (6xUARTs)
- Supports camera control function
- Supports ext. Gyro box
- Onboard 128Mbit(16MB) flash for balckbox

### Resources:

Function	Solder Pad Silk screen	Resouces	MCU Pin	Notes
SBUS	SB	RX 1	PA10	
DSM2	TX1	TX 1	PA9	CLI: serialrx_halfduplex set to ON
Smart Audio VTX	S/A	TX 5	PC12	
Smartport	S.P	TX 4	PA0	
ESC Telemetry	TLM	TX 2	PA2	CLI: set esc_sensor_halfduplex = ON
Camera Control	CC		PA8	
SDA	SDA	I2C1_SDA	PB9	Ext. Pull up needed
SCL	SCL	I2C1_SCL	PB8	
GPS	RX6/TX6	UART 6	PC6/7	
WS2812B LED	LED		PA15	
Buzzer	Bz-/Bz+		PB0	

# Pinmap



## Notification

New 4in1 socket definition, double check before connect anything

