



## Lumenier LUX AIO F7

### FC

**F722 / 5VBEC / 14VBEC / DJI FC Port / 6x UART**

MCU: 216MHz STM32F722RET6  
 IMU: MPU6000  
 UARTs: 6  
 PWM output: 4  
 I2C: 1

VBAT input: 8-40V, 3-8S Lipo  
 BEC: 5V 3A / 10V 2A  
 Blackbox: 128Mbit / 16MByte  
 Beeper  
 WS2812b LED Strip

### ESC

**F4 MCU based BLHELI32 ESC**

MCU: F4  
 Max. PWM: 128khz  
 Current sensor: Yes  
 Burst Current: 60A  
 Constant Current: 50A  
 Firmware: BLHELI32(LUXAIO)

### Resources - Free:

Function	Solder Pad Silk screen	Resources	MCU Pin	Notes
Receiver SBUS/F.port	TX1	TX 1	PA9	serialrx_inverted = ON serialrx_halfduplex = ON
Receiver Spektrum	TX1	TX 1	PA9	serialrx_inverted = OFF serialrx_halfduplex = ON
Receiver TBS	TX4 / RX4	UART4		
DJI Receiver	RX1	RX1	PA10	serialrx_inverted = ON
DJI Data	Socket	UART3		

### Resources - Assigned:

Function	Solder Pad Silk screen	Resources	MCU Pin	Notes
Smartaudio	TX5	TX5	PC12	
ESC TLM	TX2	TX2	PA2	

# Layout / Pinmap

