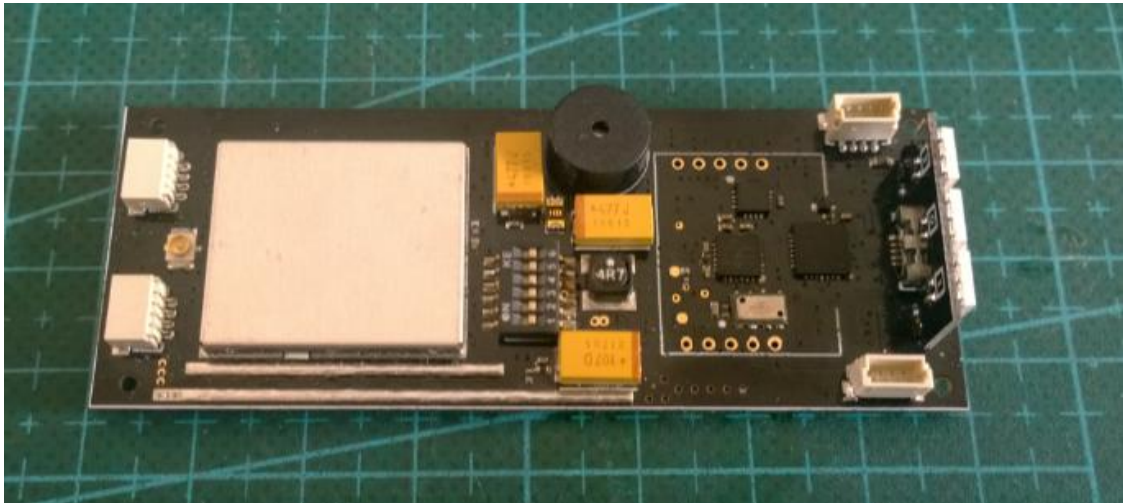


# Scisky-Mul-A integrated FPV flight control board (General use) introduction

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Scisky-Mul-A FPV flight control board is integrated with a Scisky 32 A flight control board (supports both Cleanflight and BaseFlight firmware, onboard buzzer and three color LED tail lights), a MW OSD, a DCDC power and a 5.8G analog video transmitter (max output is 500MW), it also includes several kinds of connection port

## **Features:**

- 1) Supports both Cleanflight and Baseflight firmware;
- 2) Onboard buzzer and three full color LED tail lights;
- 3) The 5.8G analog video transmitter applied a clock generator of 10PPM accuracy (most clock generators on market are of 30PPM accuracy)
- 4) The 5.8G analog video transmitter supports FAT SHARK goggles;
- 5) The video transmitter port is IPX;
- 6) Supports GPS ( only available when the UART2-RX port is not connected with the integrated receiver)
- 7) STM32F103CBT6 main control/72MHz;
- 8) Onboard sensors: MPU6050, HMC5983(optional), MSR5611(optional);
- 9) Supports outside compass and sonar;
- 10) Onboard receiver (optional);
- 11) Option for digital video transmitter port ( at the same position for onboard receiver, so customer can only choose one between the two);
- 12) Working voltage: 7.4~18V (equals 2~4S lipoly, for 6S use, customer needs to place an order specially)
- 13) The optional integrated receivers are: DSMX/DMS2 compatible receiver, SFHSS compatible receiver and Flysky compatible receiver.

Notes: 1) The barometer sensor (MSR5611) and compass (HMC5983) on the above circuit board is for optional component, which doesn't include in the quotation, please send us your email if you need to order them.

2) Scisky-Mul-A doesn't support 2203 brushless motors or 2204 and above motors.

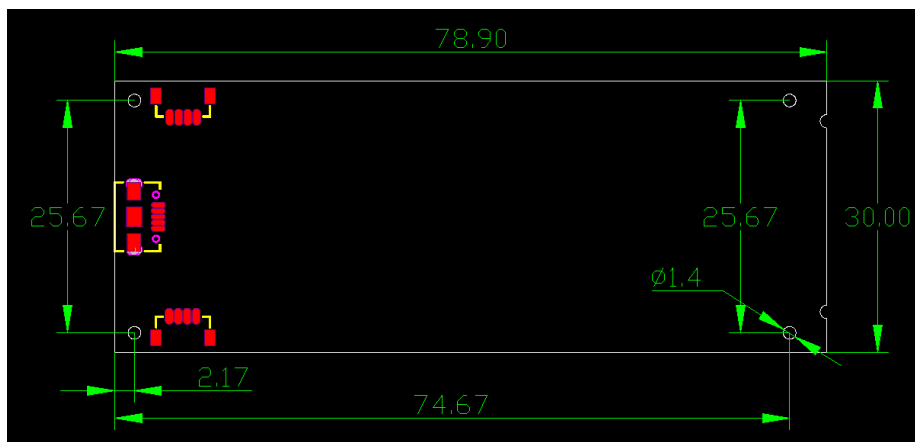
# Scisky-Mul-A integrated FPV flight control board (General use) introduction

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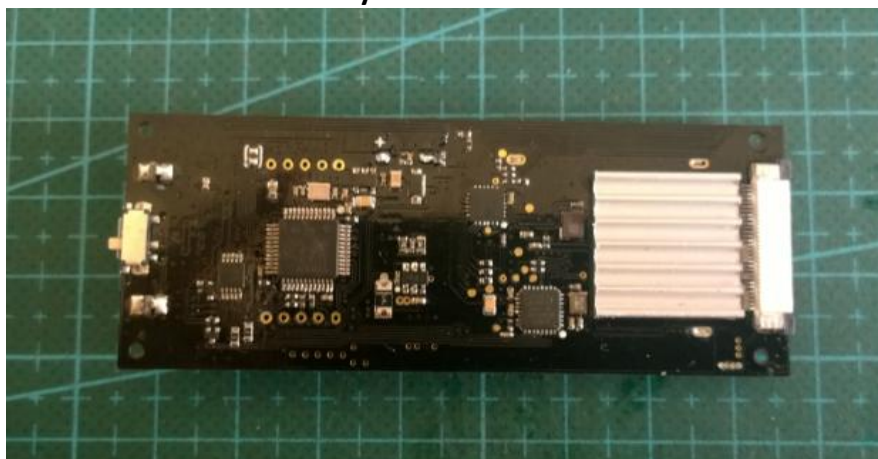
## Scisky-MUL-A mechanical parameters:

- 1) Size: 78.9\*30.0\*8.2mm (not including the height of tail LED and USB protruded part)  
79.0\*30.0\*11.4mm (including the height of tail LED and USB protruded part)
- 2) Weight: 12g (including the heatsink, not including VTX antenna and onboard receiver)
- 3) Hole for installation:  $\Phi 1.4\text{mm} \times 4$

Scisky-Mul-A appearance (unit:mm)



## Picture of the back of Scisky-Mul-A circuit



## Scisky-Mul-A tail part:

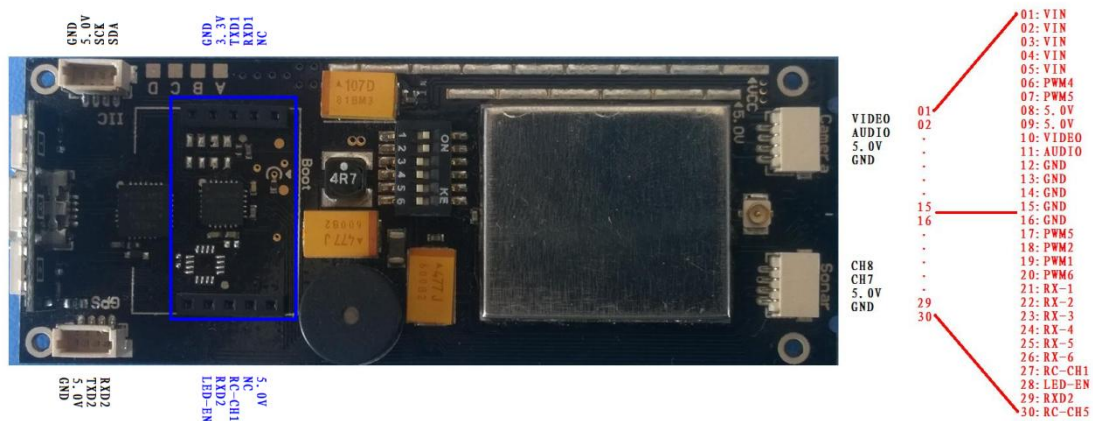
# Scisky-Mul-A integrated FPV flight control board (General use) introduction



## How USB connect with CF or OSD?

When the rear switch (at the end of the board) is turned to FC(marked on the board) side, the connecting USB is connected with CF; When the rear switch is turned to OSD side, it indicates the USB is connected with OSD (its firmware is MW OSD V1.5).

## Ports



Notes: the port names marked in black is on the front of the board, the port names marked in red is at the back of the board, the blue names show the specific receiver ports

## Frequencies for matching the switch status:

# Scisky-Mul-A integrated FPV flight control board (General use) introduction

SW1	SW2	SW3 SW4 SW5							
		000	001	010	100	011	101	110	110
0	0	5740M	5760M	5780M	5800M	5820M	5840M	5860M	5880M
0	1	5865M	5845M	5825M	5805M	5785M	5765M	5745M	5725M
1	0	5733M	5752M	5771M	5790M	5809M	5828M	5857M	5866M
1	1	5705M	5685M	5665M	6545M	5885M	5905M	5925M	5945M

Notes: 0---off; 1---on

Power test chart for 5.8G analog VTX(27.4dBm@5.705):

