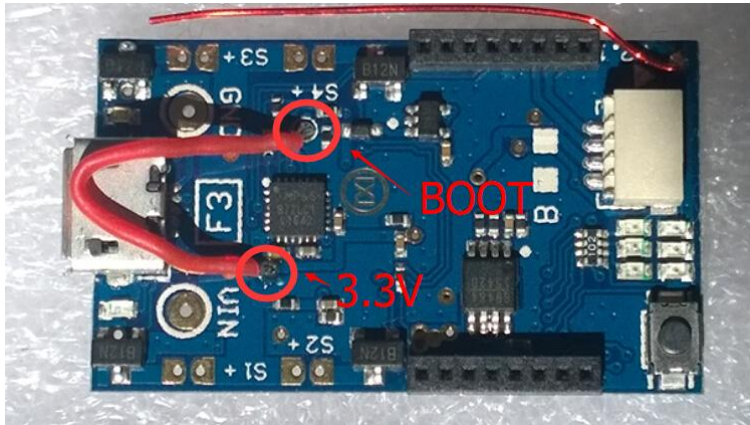


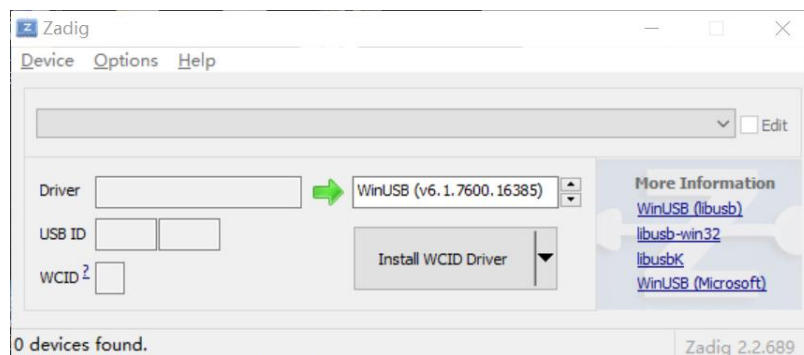
Scisky F3 firmware flashing Guide

Step 1: Download Zadig software from <http://zadig.akeo.ie> (please ignore it if it was already downloaded)

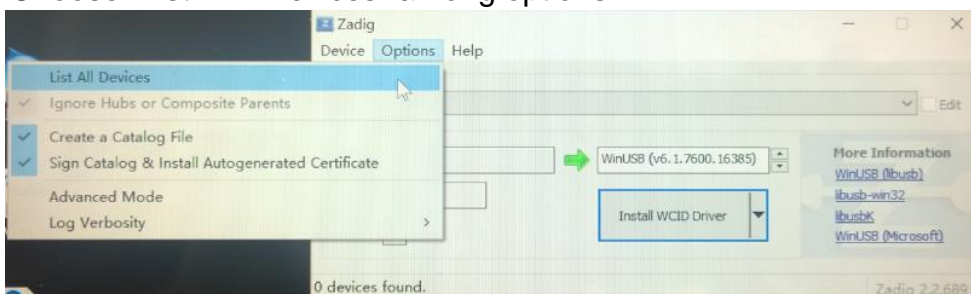
Step 2: short connect BOOT and 3.3V ports on the flight control board, please check the following picture by reference:



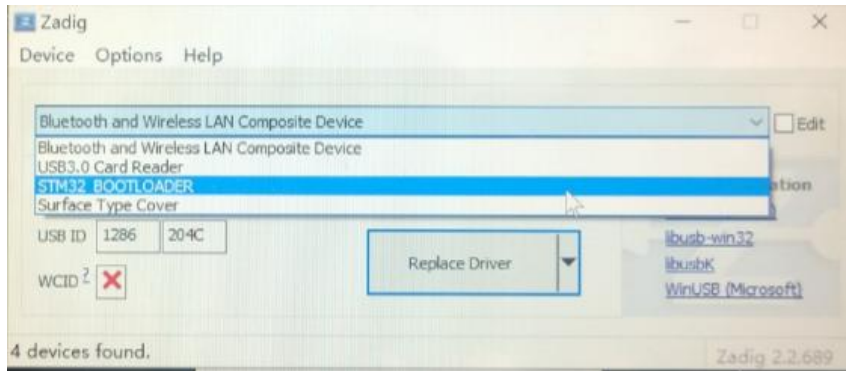
Step 3: connect Scisky F3 flight control board to computer through USB cable, open Zadig software:



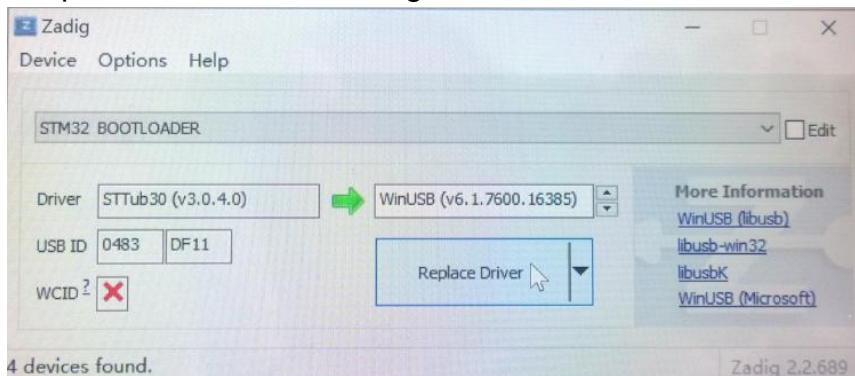
Choose "List ALL Devices" among options:



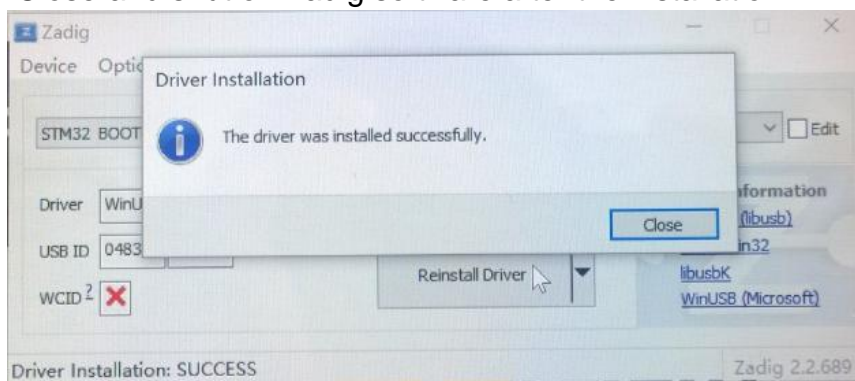
Choose STM32 BOOTLOADER



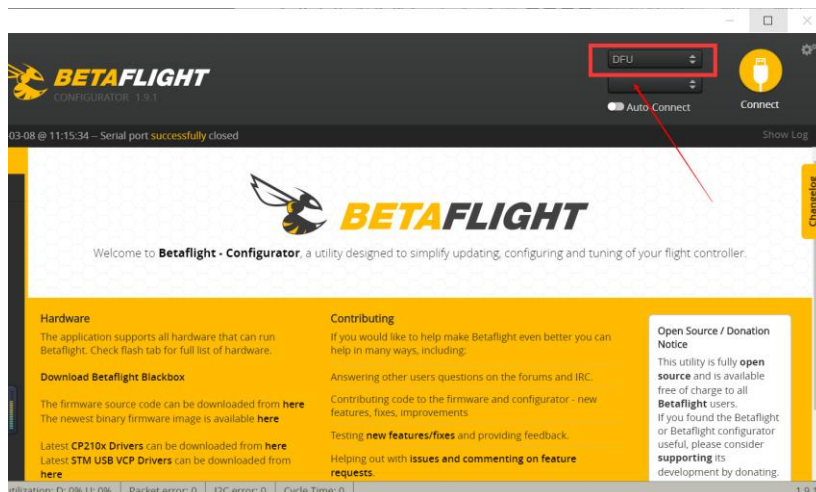
Click "Replace Driver" for installing driver:



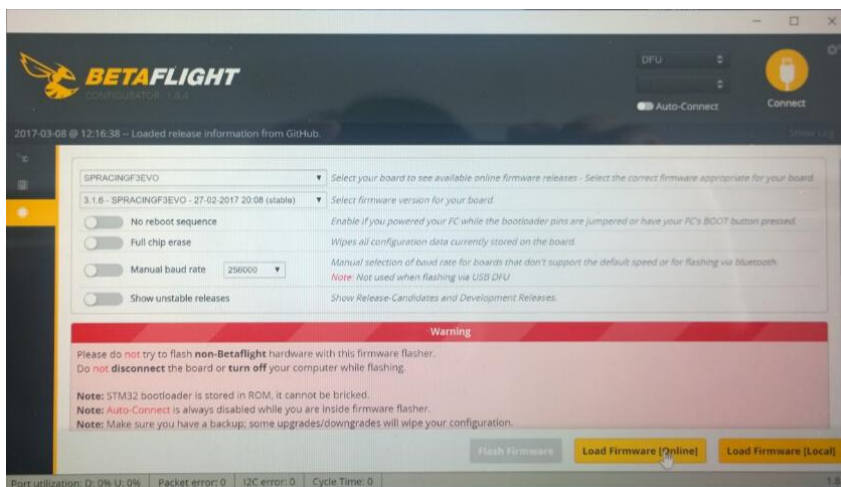
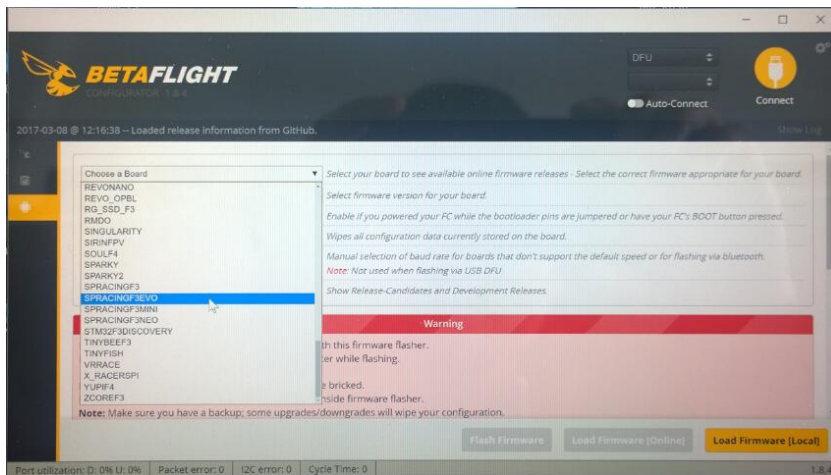
Click "Close" and shut off Zadig software after the installation:



Step 4: Disconnect Scisky F3 brushed FC with computer and then connect them again, open BETAFLIGHT or CLEANFLIGHT software, its COM port will be displayed as DFU:



Turn to firmware upgrading page, select SPRACINGF3EVO and firmware, and load the firmware.



Disconnect Scisky F3 FC with computer after finishing firmware upgrading, and then disconnect BOOT and 3.3V, connect Scisky F3 FC with computer again, enter set up page of BETAFLIGHT or CleanFlight GUI and change the parameters for receiver, ESC or sensor.

Set up for Scisky F3-A/B(DSMX/2, SFHSS, FRSKY outputs SBUS signal) as the following:

Ports WIKI

Note: not all combinations are valid. When the flight controller firmware detects this the serial port configuration will be reset.
Note: Do NOT disable MSP on the first serial port unless you know what you are doing. You may have to reflash and erase your configuration if you do.

Port Identifier	Configuration	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	<input checked="" type="checkbox"/> MSP 115200	<input type="checkbox"/> Serial RX	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART1	<input checked="" type="checkbox"/> MSP 115200	<input type="checkbox"/> Serial RX	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART2	<input type="checkbox"/> MSP 115200	<input checked="" type="checkbox"/> Serial RX	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART3	<input type="checkbox"/> MSP 115200	<input type="checkbox"/> Serial RX	Disabled AUTO	Disabled AUTO	Disabled AUTO

Mixer
Quad X

ESC/Motor Features
 BRUSHED ESC/Motor protocol
 Motor PWM speed Separated from PID speed
 MOTOR_STOP Don't spin the motors when armed
 Disarm motors regardless of throttle value (When arming via AUX channel)
 5 Disarm motors after set delay(Seconds) (Requires MOTOR_STOP feature)
 1070 Minimum Throttle (Lowest ESC value when armed)
 2000 Maximum Throttle (Highest ESC value when armed)
 1000 Minimum Command (ESC value when disarmed)

Board and Sensor Alignment
 0 Roll Degrees
 0 Pitch Degrees
 0 Yaw Degrees
 GYRO Alignment CW 0°
 ACCEL Alignment CW 0°
 MAG Alignment Default

Receiver
 Serial-based receiver (SPEKSAT, SBU) Receiver Mode
 Note: Remember to configure a Serial Port (via Ports tab) and choose a Serial Receiver Provider when using RX_SERIAL feature.
 SBUS Serial Receiver Provider

Battery Voltage
 VBAT Battery voltage monitoring
 Battery Meter Type
 3 Minimum Cell Voltage
 4,5 Maximum Cell Voltage

Receiver WIKI

Please read receiver chapter of the documentation. Configure serial port (if required), receiver mode (serial/ppm/pwm), provider (for serial receivers), bind receiver, set channel map, configure channel endpoints/range on TX so that all channels go from ~1000 to ~2000. Set midpoint (default 1500), trim channels to 1500, configure stick deadband, verify behaviour when TX is off or out of range.
IMPORTANT: Before flying read failsafe chapter of documentation and configure failsafe.

Roll 1500
 Pitch 1500
 Yaw 1500
 Throttle 885
 AUX 1 1500
 AUX 2 1500
 AUX 3 1500
 AUX 4 1500
 AUX 5 1500

Channel Map AETR1234 **RSSI Channel** Disabled

Center value for RC channels 1500 **RC Deadband** 0 **Yaw Deadband** 0

RC Interpolation

Setting up for Scisky F3-C receiver(FlySky, Hubsan outputs PPM signal) is as the following:

Ports WIKI

Note: not all combinations are valid. When the flight controller firmware detects this the serial port configuration will be reset.
 Note: Do NOT disable MSP on the first serial port unless you know what you are doing. You may have to reflash and erase your configuration if you do.

Port Identifier	Configuration	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	<input checked="" type="checkbox"/> MSP 115200	<input type="checkbox"/> Serial RX	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART1	<input checked="" type="checkbox"/> MSP 115200	<input type="checkbox"/> Serial RX	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART2	<input type="checkbox"/> MSP 115200	<input type="checkbox"/> Serial RX	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART3	<input type="checkbox"/> MSP 115200	<input type="checkbox"/> Serial RX	Disabled AUTO	Disabled AUTO	Disabled AUTO

Mixer

Quad X

ESC/Motor Features

BRUSHED ESC/Motor protocol

Motor PWM speed Separated from PID speed

MOTOR_STOP Don't spin the motors when armed

Disarm motors regardless of throttle value (When arming via AUX channel)

5 Disarm motors after set delay(Seconds) (Requires MOTOR_STOP feature)

1070 Minimum Throttle (Lowest ESC value when armed)

2000 Maximum Throttle (Highest ESC value when armed)

1000 Minimum Command (ESC value when disarmed)

Board and Sensor Alignment

0 Roll Degrees

0 Pitch Degrees

0 Yaw Degrees

GYRO Alignment CW 0°

ACCEL Alignment CW 0°

MAG Alignment Default

Accelerometer Trim

0 Accelerometer Roll Trim

0 Accelerometer Pitch Trim

Receiver

PPM RX input Receiver Mode

Battery Voltage

VBAT Battery voltage monitoring

Receiver

WIKI

Please read receiver chapter of the documentation. Configure serial port (if required), receiver mode (serial/ppm/pwm), provider (for serial receivers), bind receiver, set channel map, configure channel endpoints/range on TX so that all channels go from -1000 to -2000. Set midpoint (default 1500), trim channels to 1500, configure stick deadband, verify behaviour when TX is off or out of range.

IMPORTANT: Before flying read failsafe chapter of documentation and configure failsafe.

Roll	1500
Pitch	1500
Yaw	1500
Throttle	885
AUX 1	1500
AUX 2	1500
AUX 3	1500
AUX 4	1500
AUX 5	1500

Channel Map

AETR1234

RSI Channel Disabled

Center value for RC channels	RC Deadband	Yaw Deadband
1500	0	0

RC Interpolation