## Scisky F3 firmware flashing Guide

Step 1: Download Zadig software from <u>http://zadig.akeo.ie</u> (please ignor 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:

| Zadig                      |                            | - 🗆 X   |
|----------------------------|----------------------------|---|
| evice Options <u>H</u> elp |                            |   |
|                            |                            | ✓ ☐Edit                                       |
| Driver                     | WinUSB (v6. 1.7600, 16385) | More Information<br>WinUSB (libusb)           |
| USB ID WCID <sup>2</sup>   | Install WCID Driver        | libusb-win32<br>libusbK<br>WinUSB (Microsoft) |
| WCID <sup>2</sup>          |                            | WinUSB (Microsoft                             |

## Choose "List ALL Devices" among options:

|     | Zac  | lig       |      |                          | - 🗆 x   |  |
|-----|--|-----------|------|--------------------------|---|--|
| >   | Devic  | e Options | Help |                          |   |  |
|     | List All Devices   |           |      |                          |   |  |
| ~   | Ignore Hubs or Composite Parents                                       | P. R.     |      |                          | ~ Edit  |  |
| 1 1 | Create a Catalog File<br>Sign Catalog & Install Autogenerated Certific | ate       |      | WinUSB (v6.1.7600.16385) | More Information                              |  |
|     | Advanced Mode<br>Log Verbosity   | >         |      | Install WCID Driver      | libusb-win32<br>libusbK<br>WinUSB (Microsoft) |  |
|     | 0 devie  | es found. |      |                          | Zadig 2.2.685                                 |  |

Choose STM32 BOOTLOADER



Click "Replace Driver" for installing driver:

| Zadig<br>Device Options Help                                       |   | - 🗆 🗙  |
|--|---|--|
| STM32 BOOTLOADER   |   | ~ Edit   |
| Driver STTub30 (v3.0.4.0)<br>USB ID 0483 DF11<br>WCID <sup>2</sup> | WinUSB (v6. 1.7600. 16385)           Replace Driver | More Information<br>WinUSB (libusb)<br>libusb-win32<br>libusbK<br>WinUSB (Microsoft) |
| 4 devices found.   |   | Zadig 2.2.689  |

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

| 🖪 Zadig            |  | T ×                   |
|--------------------|--|-----------------------|
| Device Optic       | Driver Installation                    |                       |
| STM32 BOOT         | The driver was installed successfully. | Edit                  |
| Driver WinU        | Close                                  | formation<br>(libusb) |
| WCID <sup>2</sup>  | Reinstall Driver 🕞 💌 libusbK<br>WinUSI | B (Microsoft)         |
| Driver Installatio | n: SUCCESS                             | Zadig 2.2.689         |

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.<br>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. |                |           |                                 |                   |                   |  |
| å   | Port Identifier  | Configuration  | Serial Rx | Telemetry Output                | Sensor Input      | Peripherals       |  |
| •   | USB VCP  | ● MSP 115200 ▼ | Serial RX | Disabled <b>v</b> AUTO <b>v</b> | Disabled V AUTO V | Disabled V AUTO V |  |
| 80  | UART1  | ● MSP 115200 ▼ | Serial RX | Disabled <b>v</b> AUTO <b>v</b> | Disabled V AUTO V | Disabled V AUTO V |  |
| 4   | UART2  | MSP 115200 V   | Serial RX | Disabled <b>v</b> AUTO <b>v</b> | Disabled V AUTO V | Disabled V AUTO V |  |
| ef. | UART3  | MSP 115200 ▼   | Serial RX | Disabled V AUTO V               | Disabled V AUTO V | Disabled V AUTO V |  |

| ېر            |  |  |
|---------------|--|--|
| *             | Mixer  | ESC/Motor Features   |
| <b>×</b>      | Quad X 🔻   | BRUSHED   SC/Motor protocol  |
| ٠             | 74 25  | Motor PWM speed Separated from PID speed                                 |
| ភំ            |  | Don't spin the motors when armed   |
| <b>b</b>      | 1  | Disarm motors regardless of throttle value (When arming via AUX channel) |
| <b>≅</b><br>∎ |  | 5 Disarm motors after set delay(Seconds) (Requires MOTOR_STOP feature)   |
| Teller<br>IL  |  | 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   | Accelerometer Trim   |
|               | 0 CW 0° V  | 0 💠 Accelerometer Roll Trim  |
|               | 0 🗘 🖞 Pitch Degrees ACCEL Alignment CW 0° 🔻                            | 0 🗘 Accelerometer Pitch Trim   |
|               | 0 🗘 🖘 Yaw Degrees MAG Alignment Default 🔻                              |  |
|               |  |  |
|               | Receiver   | Battery Voltage  |
|               | Serial-based receiver (SPEKSAT, SBU V                                  | VBAT Battery voltage monitoring  |
|               | Note: Remember to configure a Serial Port (via Ports tab) and choose a | Battery Meter Type   |
|               | Serial Receiver Provider when using RX_SERIAL feature.                 | 3 🗘 Minimum Cell Voltage   |
|               | SBUS   Serial Receiver Provider  | 4.5 \$ Maximum Cell Voltage  |
|               |  |  |

| 4 | Receiver    |  |  |   | WIKI                                     |  |
|---|-------------|--|--|---|--|--|
| 8 | Disease     | den stander ander den stander ander and                          |  |   | and the second second                    |  |
| • | receiver, s | a receiver chapter of the documentation. Configure serial port (if r<br>et channel map, configure channel endpoints/range on TX so that  | all channels go from ~1000 to ~2000. Set m | provider (for serial r<br>idpoint (default 1500 | 'eceivers), bind<br>)), trim channels to |  |
|   | 1500, cont  | gure stick deadband, verify behaviour when TX is off or out of ran<br>T: Before flying read fails fe chapter of documentation and config | nge.<br>gure fallsafe                      |   |  |  |
|   | INFORTA     | The before hydrig read raisare chapter of documentation and coming   | gure fallsare.                             |   |  |  |
|   | Roll        | 1 <u>5</u> 00  | Channel Map                                | I   | RSSI Channel                             |  |
| 3 | Pitch       | 1500   | AETR1234                                   |   | Disabled v                               |  |
|   | Yaw         | 1500   |  |   |  |  |
|   | Throttle    | 885  | Center value for RC channels               | RC Deadband                                     | Yaw Deadband                             |  |
|   | AUX 1       | 1500   |  |   |  |  |
|   | AUX 2       | 1500   | 1500 -                                     | U   | •  |  |
|   | AUX 3       | 1500   | 0  | 0   | 0  |  |
|   | AUX 4       | 1500   |  |   |  |  |
|   | AUX 5       | 1 <mark>5</mark> 00  | RC Interpolation                           |   |  |  |
|   |             |  |  |   |  |  |

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

| ¥        | Ports Wiki       |   |                      |                             |                               |                                 |  |
|----------|------------------|---|----------------------|-----------------------------|-------------------------------|---------------------------------|--|
| ¥<br>∧   | Note: not all co | Note: not all combinations are valid. When the flight controller firmware detects this the serial port configuration will be reset. |                      |                             |                               |                                 |  |
| *        | Note. Do Nor e   | isuble war of the first send  | port unicss you know | what you are doing. Tou may | nave to renasir and cruse you | comparation in you do.          |  |
| ភំ       | Port Identifier  | Configuration   | Serial Rx            | Telemetry Output            | Sensor Input                  | Peripherals                     |  |
| ₫        | USB VCP          | MSP 115200 ▼  | Serial RX            | Disabled V AUTO V           | Disabled V AUTO V             | Disabled V AUTO V               |  |
| 8        | UART1            | MSP 115200 ▼  | Serial RX            | Disabled V AUTO V           | Disabled V AUTO V             | Disabled   AUTO                 |  |
| <b>é</b> | UART2            | MSP 115200 ▼  | Serial RX            | Disabled ▼ AUTO ▼           | Disabled V AUTO V             | Disabled <b>v</b> AUTO <b>v</b> |  |
| ter.     | UART3            | MSP 115200 ▼  | Serial RX            | Disabled V AUTO V           | Disabled V AUTO V             | Disabled V AUTO V               |  |

