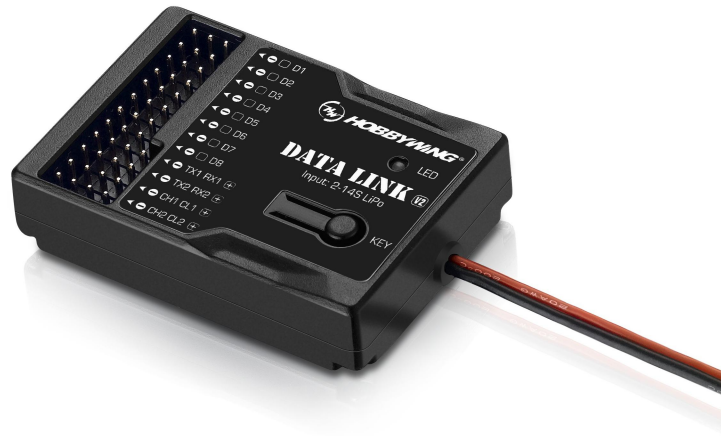




Datalink Firmware Upgrade
Guide (UART)

所用工具:



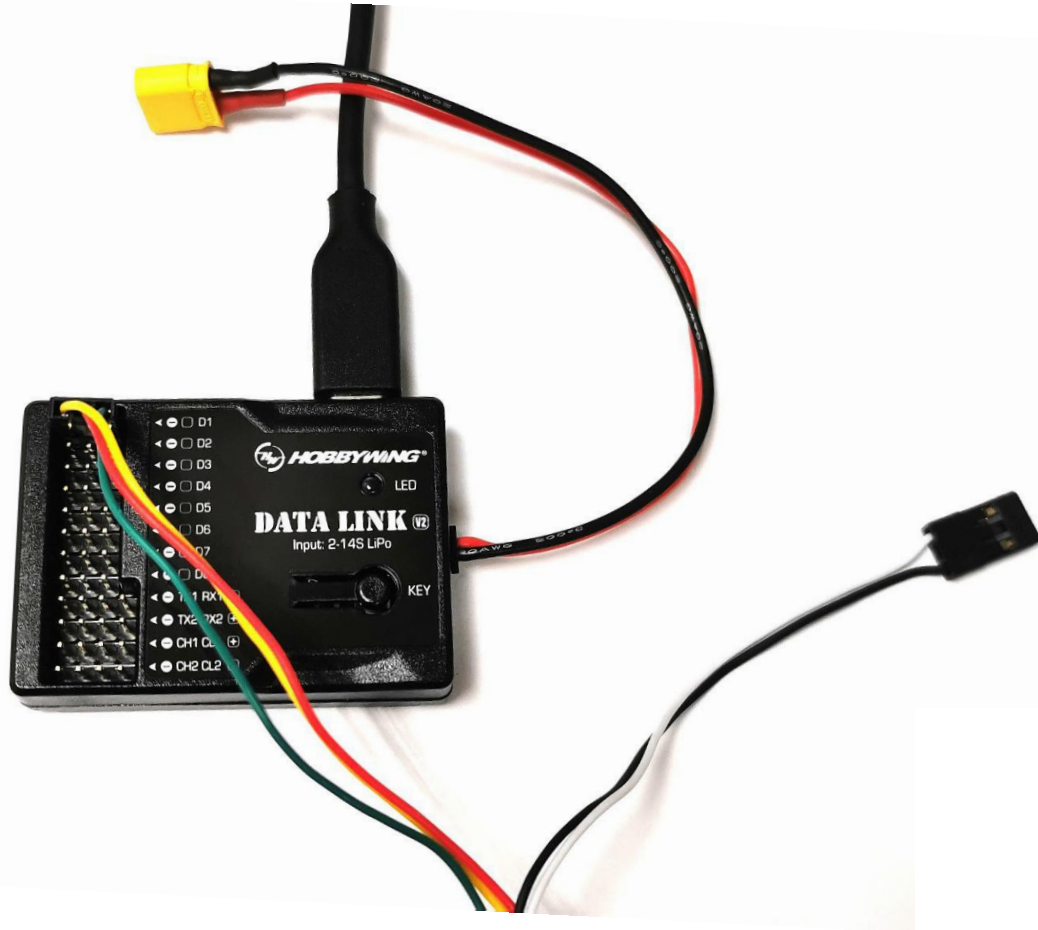
Datalink



Type-C cable

TIPS:

1. Please power Datalink by USB port only.
2. The ESC requires power supply in the upgrade process. The details will show below.
3. For single ESC upgrading, please prioritize the use of D1 port.
4. For upgrading more than one ESC, you can use D1-D8 port. They can be identified at the same time, but the upgrading still goes one by one.
5. Whether the black and white cable is plugged in or not will not affect the upgrade.
6. Please check the definition about the cable used for upgrading on the ESC's user manual.
7. If the LED light flashes **red**. Please try to upgrade the firmware of Datalink, or contact our after-sales service.



上位机软件:

名称	修改日期
Lib	2023/2/13 16:39
Log	2022/8/31 8:28
AIRCRAFT_ESC_version_control	2022/3/25 17:26
DataLink	2021/12/15 17:19
DataLink.exe.config	2019/8/20 14:34
DataLink.pdb	2020/7/16 14:21
LCD_settings.db3	2020/7/22 17:13
LCD_version_control	2022/1/7 17:21
Newtonsoft.Json	2019/4/22 0:57
System.Data.SQLite	2019/6/8 16:50
UART_D.DAT	2021/12/9 9:17
UART_L.DAT	2018/8/9 15:41
version_control	2020/7/28 11:26

Run Datalink as administrator

DataLink

- Firmware
- CAN tuning
- UART

USB UART

Update information

Database version: 2020-11-03

2023-07-19 16:39:32:945 : 316 time: 2023-7-19 16:39:32
2023-07-19 16:39:32:948 : System time: 2023-7-19 16:39:32
2023-07-19 16:39:32:949 : Same date, syncing not needed.

- Types
- Uart->ESC
 - CAN->ESC
 - CAN
 - Uart->ESC(FAST)
 - CAN->ESC(FAST)
 - DataLink

Device Information

	Device version	Hardware version	Firmware version	Unique code
<input type="checkbox"/> Channel 1				
<input type="checkbox"/> Channel 2				
<input type="checkbox"/> Channel 3				
<input type="checkbox"/> Channel 4				
<input type="checkbox"/> Channel 5				
<input type="checkbox"/> Channel 6				
<input type="checkbox"/> Channel 7				
<input type="checkbox"/> Channel 8				

Please confirm the version here is upper than 01.2.09/ 01.2.10-U

316 Software version
LINK-01.2.09-U

Scanning Update

Available version: [dropdown]

Device type and hardware version: [input]

DataLink

Firmware CAN tuning UART

USB UAF

Update information

Database version: 2020-11-03

2023-07-19 16:39:32:945 : 316 time: 2023-7-19 16:39:32
2023-07-19 16:39:32:948 : System time: 2023-7-19 16:39:32
2023-07-19 16:39:32:949 : Same date, syncing not needed.

Types

- Uart->ESC
- CAN->ESC
- CAN
- Uart->ESC(FAST)
- CAN->ESC(FAST)
- DataLink

Device type HW-DATALINK

Hardware version HW316_YT1_V1.3

Firmware version LINK-01.2.09-U

Available version

- LINK-01.2.10-U
- CAN_TEST_ESC_0.1
- FAST-C V001
- FAST-U V001
- LINK-01.1.06-C
- LINK-01.1.06-U
- LINK-01.2.07-U
- LINK-01.2.07-C
- LINK-01.2.09-U
- LINK-01.2.09-C
- LINK-01.2.11-C
- LINK-01.2.10-U
- LINK-01.2.14-C
- PWM TOOLS V1.20
- Combo_EC105_V1.0
- MTPWMTOOLS V1.12
- LINK-01.2.15-C
- MTPWMTOOLS V1.09

If not, please select available version here and update firmware of DataLink.

DataLink USB UART

Firmware | CAN tuning | UART

Update information

Database version: 2020-11-03

2023-07-19 18:38:44:854 : 316 time: 2023-7-19 18:38:44
2023-07-19 18:38:44:858 : System time: 2023-7-19 18:38:44
2023-07-19 18:38:44:859 : Same date, syncing not needed.

Types

- Uart->ESC
- CAN->ESC
- CAN
- Uart->ESC(FAST)
- CAN->ESC(FAST)
- DataLink

Device Information

	Device version	Hardware version	Firmware version	Unique code
<input type="checkbox"/> Channel 1				
<input type="checkbox"/> Channel 2				
<input type="checkbox"/> Channel 3				
<input type="checkbox"/> Channel 4				
<input type="checkbox"/> Channel 5				
<input type="checkbox"/> Channel 6				
<input type="checkbox"/> Channel 7				
<input type="checkbox"/> Channel 8				

316 Software version
LINK-01.2.09-U

Scanning Update

Available version:

Device type and hardware version:

V2.0.5 Connection Status: Communication Status:

Please use one of these two types to connect

TIPS:

We have a new type and a history type depending on the production date. Please choose one of these two types for scanning.

Update information Database version: 2020-11-03

2023-07-19 18:38:44:854 : 316 time: 2023-7-19 18:38:44
2023-07-19 18:38:44:858 : System time: 2023-7-19 18:38:44
2023-07-19 18:38:44:859 : Same date, syncing not needed.

- Types
- Uart->ESC
 - CAN->ESC
 - CAN
 - Uart->ESC(FAST)
 - CAN->ESC(FAST)
 - DataLink

Device Information

	Device version	Hardware version	Firmware version	Unique code
<input checked="" type="checkbox"/> Channel 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> Channel 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> Channel 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> Channel 4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> Channel 5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> Channel 6	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> Channel 7	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> Channel 8	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

316 Software version
LINK-01.2.09-U

Available version: Device type and hardware version:

TIPS:

Here's the example of history type. Select " Uart-> ESC", after scanning, the ESC information will be displayed on the screen. After power on the ESC about 3 seconds, click "Stop".

Database version: 2020-11-03

2023-07-20 10:00:29:472 : 316 time: 2023-7-20 10:0:29
2023-07-20 10:00:29:474 : System time: 2023-7-20 10:0:29
2023-07-20 10:00:29:474 : Same date, syncing not needed.

Types

- Uart->ESC
- CAN->ESC
- CAN
- Uart->ESC(FAST)
- CAN->ESC(FAST)
- DataLink

316 Software version

LINK-01.2.09-U

Device Information

	Device version	Hardware version	Firmware version	Unique code
<input checked="" type="checkbox"/> Channel 1	XR_FOC_ESC_V5	HW577_KZ3_V2.0	XR022-X6-180KV	XR022-X6-180KV
<input type="checkbox"/> Channel 2				
<input type="checkbox"/> Channel 3				
<input type="checkbox"/> Channel 4				
<input type="checkbox"/> Channel 5				
<input type="checkbox"/> Channel 6				
<input type="checkbox"/> Channel 7				
<input type="checkbox"/> Channel 8				

Scanning

Update

Available version:

- XR021-X6-180KV
- XR021-X6-180KV
- XR011-X6-180KV
- XR022-X6-180KV

Device type and hardware version:

TIPS:

Click out the drop-down list at "Available version", select the firmware version that you want and click "Update".

DataLink USE UAF

Firmware | CAN tuning | UART

Update information

Database version: 2020-11-03

2023-07-20 10:09:30:255 : Channel 1 from XR022-X6-180KV to XR021-X6-180KV upgraded successfully.
2023-07-20 10:11:35:251 : Updating from XR021-X6-180KV to XR021-X6-180KV
2023-07-20 10:11:35:710 : Start updating channel 1 firmware

Types

- Uart->ESC
- CAN->ESC
- CAN
- Uart->ESC(FAST)
- CAN->ESC(FAST)
- DataLink

316 Software version

LINK-01.2.09-U

Device Information

	Device version	Hardware version	Firmware version	Unique code
<input checked="" type="checkbox"/> Channel 1	XR_FOC_ESC_V5	HW577_KZ3_V2.0	XR021-X6-180KV	XR021-X6-180KV
<input type="checkbox"/> Channel 2				
<input type="checkbox"/> Channel 3				
<input type="checkbox"/> Channel 4				
<input type="checkbox"/> Channel 5				
<input type="checkbox"/> Channel 6				
<input type="checkbox"/> Channel 7				
<input type="checkbox"/> Channel 8				

Available version: XR021-X6-180KV

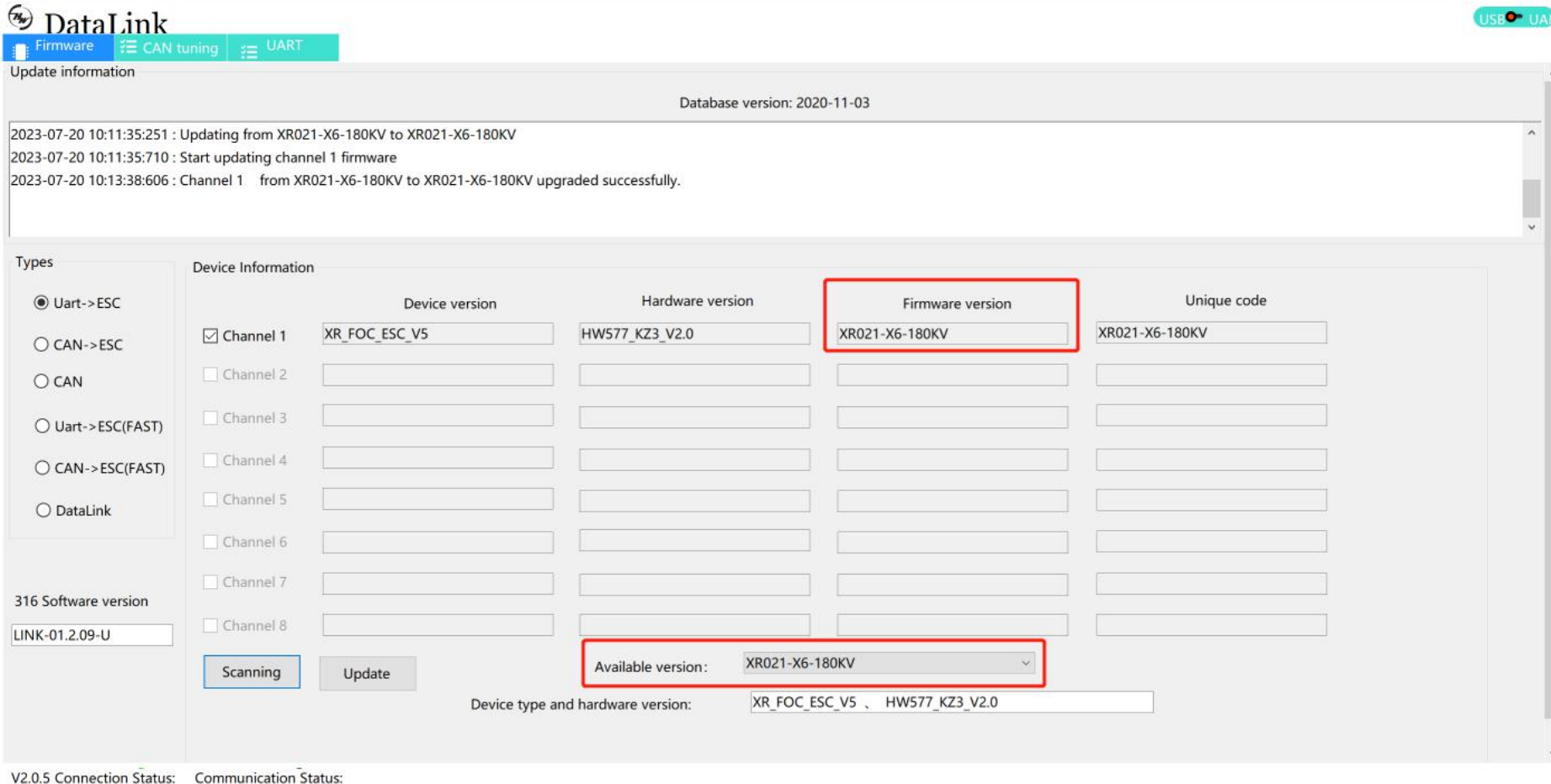
Device type and hardware version: XR_FOC_ESC_V5 , HW577_KZ3_V2.0

Scanning Update

Updating of channel 1 equipment is in progress

V2.0.5 Connection Status: Communication Status:

TIPS:
Waiting for the upgrade complete.



The screenshot shows the DataLink software interface. At the top, there are navigation tabs for 'Firmware', 'CAN tuning', and 'UART'. The 'Firmware' tab is active. Below the navigation, there is a 'Update information' section with a log of update events. The main area is divided into 'Types' and 'Device Information'. The 'Device Information' section contains a table with columns for 'Device version', 'Hardware version', 'Firmware version', and 'Unique code'. The 'Firmware version' column for Channel 1 is highlighted with a red box. Below the table, there is a dropdown menu for 'Available version' also highlighted with a red box, showing 'XR021-X6-180KV'. At the bottom, there are 'Scanning' and 'Update' buttons, and a field for 'Device type and hardware version'.

Update information

Database version: 2020-11-03

2023-07-20 10:11:35:251 : Updating from XR021-X6-180KV to XR021-X6-180KV
2023-07-20 10:11:35:710 : Start updating channel 1 firmware
2023-07-20 10:13:38:606 : Channel 1 from XR021-X6-180KV to XR021-X6-180KV upgraded successfully.

Types

- Uart->ESC
- CAN->ESC
- CAN
- Uart->ESC(FAST)
- CAN->ESC(FAST)
- DataLink

316 Software version

LINK-01.2.09-U

	Device version	Hardware version	Firmware version	Unique code
<input checked="" type="checkbox"/> Channel 1	XR_FOC_ESC_V5	HW577_KZ3_V2.0	XR021-X6-180KV	XR021-X6-180KV
<input type="checkbox"/> Channel 2				
<input type="checkbox"/> Channel 3				
<input type="checkbox"/> Channel 4				
<input type="checkbox"/> Channel 5				
<input type="checkbox"/> Channel 6				
<input type="checkbox"/> Channel 7				
<input type="checkbox"/> Channel 8				

Available version: XR021-X6-180KV

Device type and hardware version: XR_FOC_ESC_V5 , HW577_KZ3_V2.0

Scanning Update

Tips:

After the upgrade is completed, repeat the steps as page 8 to check whether the upgrade is successful or not. If upgrade failed by powering off by accident during upgrading or other cases, please try all upgrade steps again.