

HOBBYWING Datalink V2 Communication Device Firmware User Guide

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HOBBYWING Datalink V2 Communication Device Firmware



Product Information

The Datalink Firmware Upgrade GuideCAN is a tool designed for upgrading the firmware of Tools Datalink V2. It is compatible with Type-C Cable for communication between the tool and the device. The upgrade process requires the use of specific software.

Product Usage Instructions

1. Select the “CAN->ESC(FAST)” mode in the software.
2. Click OK to confirm the mode selection.

3. Click on “Communication Settings” to proceed.
4. Scan for the device by following the instructions provided by the software.
5. Power on your ESC (Electronic Speed Controller) after scanning.
6. Click Stop to halt the scanning process.
7. The ESC information will be displayed on the screen, indicating successful communication.
8. In the software, click on the drop-down list at “Available version”.
9. Select the firmware version that you want to update.
10. Click on “Update” to initiate the upgrade process.
11. Wait for the upgrade to complete.
12. After the upgrade is finished, refer to page 8 of the user manual for instructions on how to verify the success of the upgrade.
13. If the upgrade fails due to accidental power-off or any other reasons, repeat all the upgrade steps again.

Datalink Firmware Upgrade Guide CAN

Tools

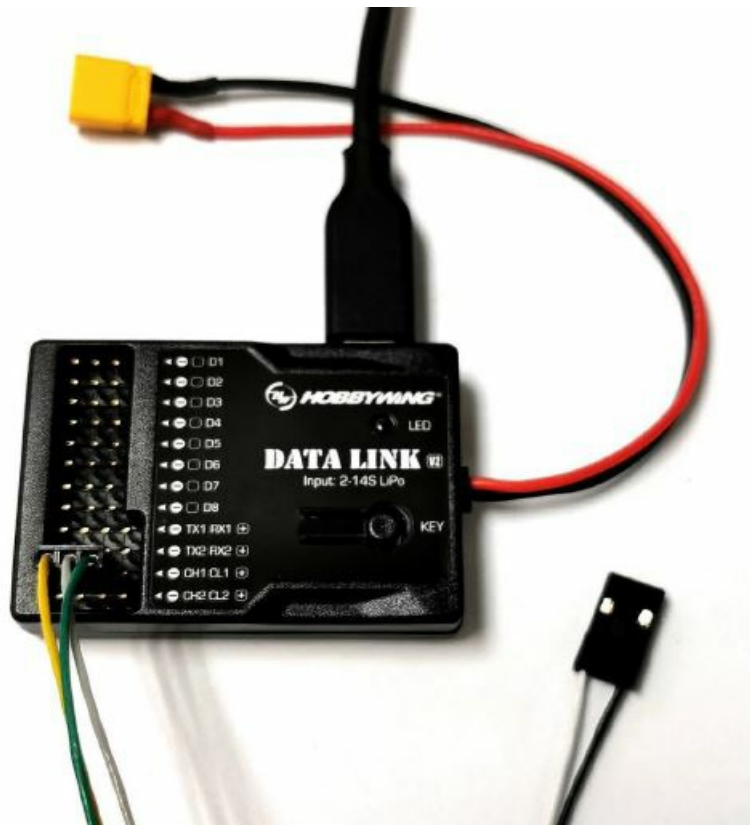


Datalink V2



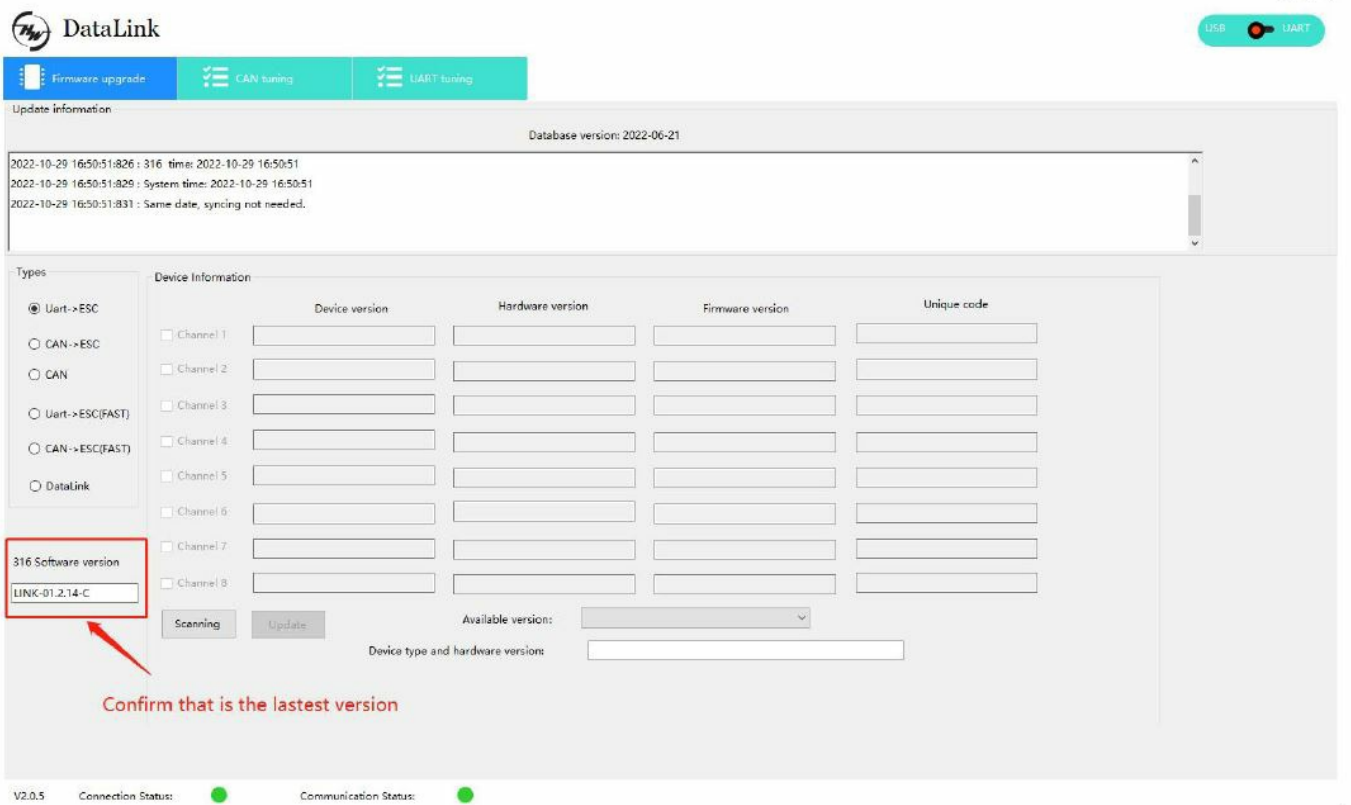
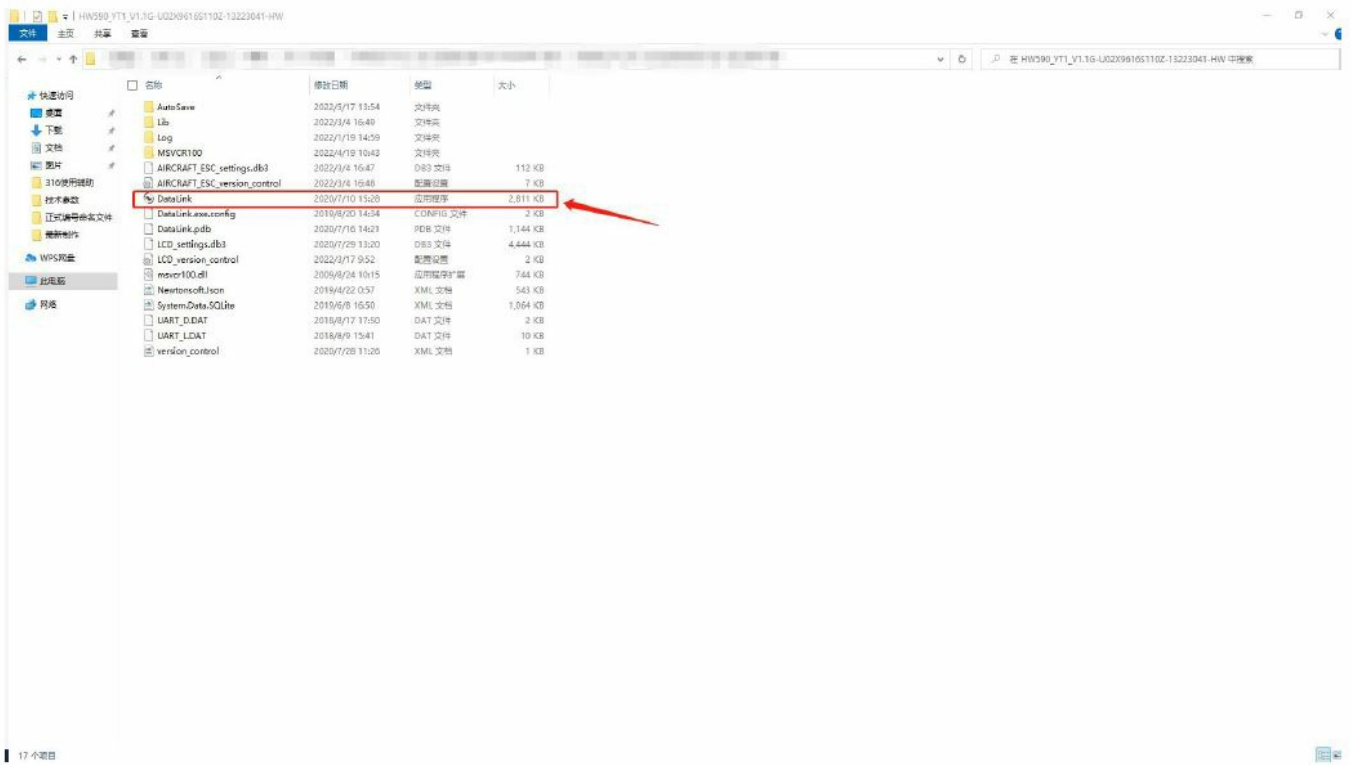
Type-C Cable

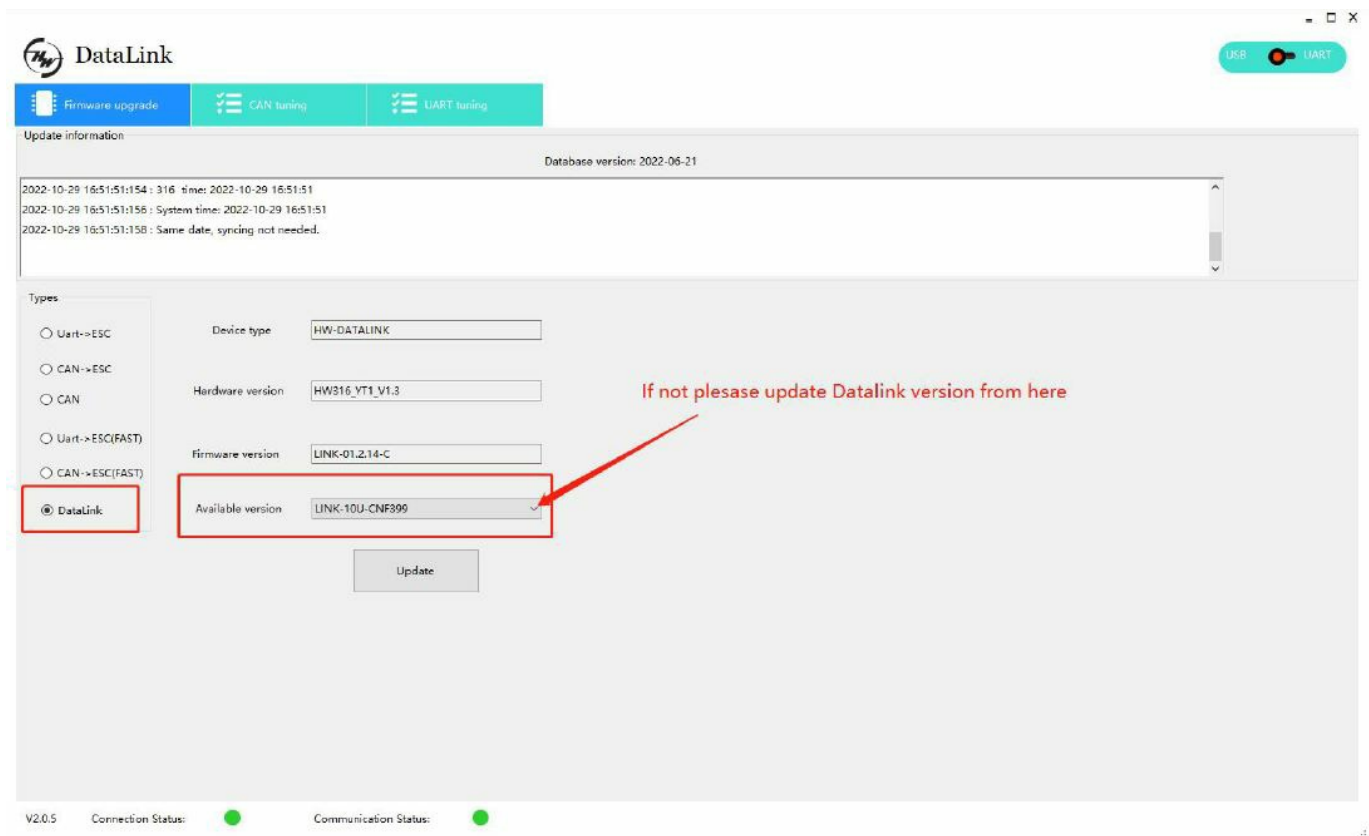
TIPS



1. Please power Datalink by USB port only.
2. The ESC requires power supply in the upgrade process. The details will show below.
3. It supports upgrading only one ESC at the same time, using the "- CH1 CL1 +" port.
4. The yellow cable is GND, the middle one cable is CH, and the green cable is CL. No need to connect the positive pole cable. If the colors of your ESC's cables are different with this, please check the cable definition on the user manual.
5. Whether the black and white cable is plugged in or not will not affect the upgrade.
6. If the LED light flashes red, it is abnormal. Please try to upgrade the firmware of Datalink, or contact our after-sales service.

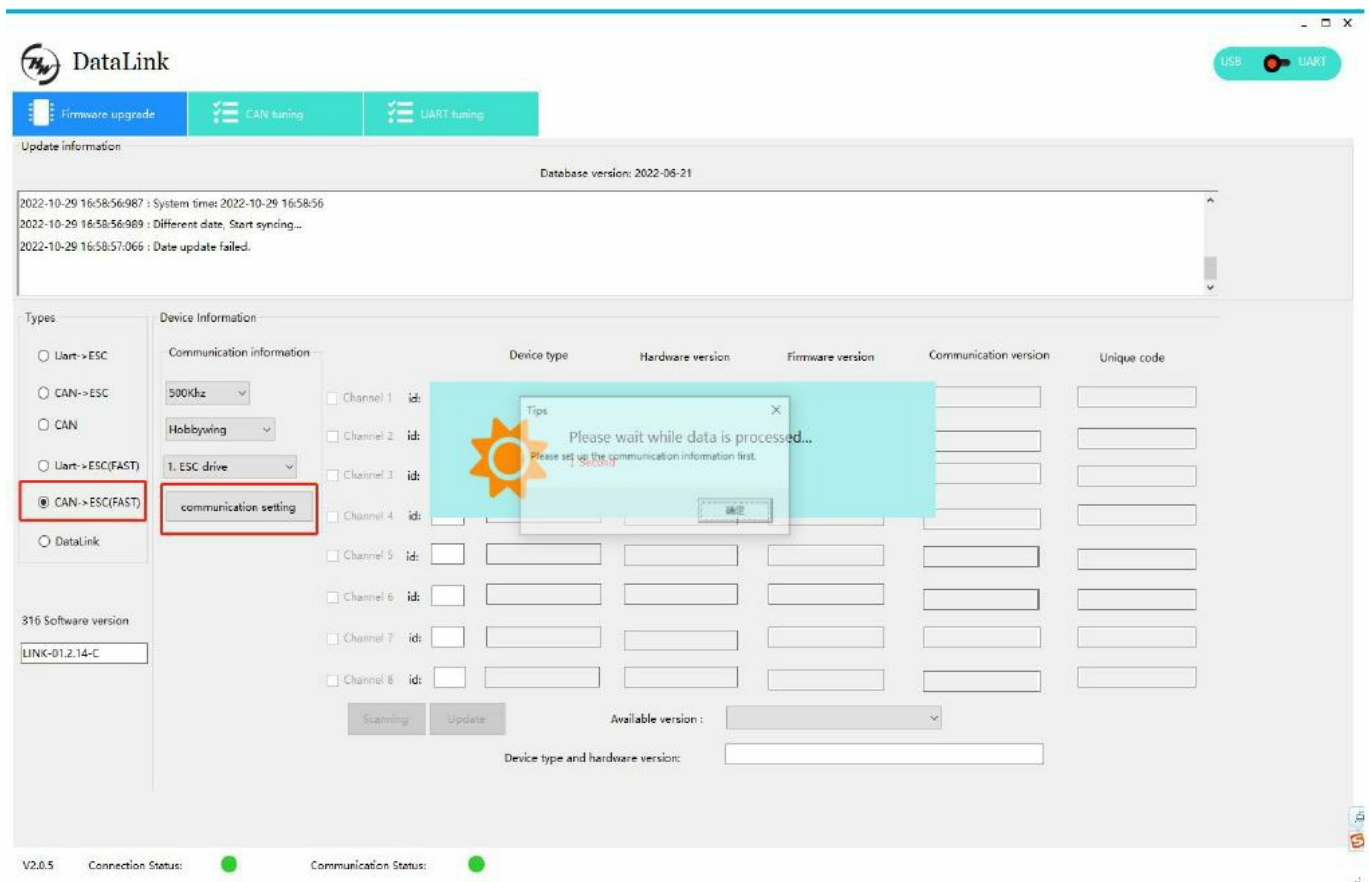
Software





Tips

Select "CAN->ESC(FAST)" mode, click OK, and then click "Communication Settings".



After scanning, power on your ESC. Then click Stop, the ESC informations will be displayed on the screen. That means the communication succeeded.

DataLink USB UART

Firmware upgrade **CAN tuning** **UART tuning**

Update information Database version: 2022-06-21

2022-10-29 16:58:56:989 : Different date, Start syncing...
 2022-10-29 16:58:57:066 : Date update failed.
 2022-10-29 17:03:48:116 : Channel 1 handshake succeeded.

Types

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

316 Software version
LINK-01.2.14-C

Device Information

Communication information
 500Khz
 Hobbywing
 1. ESC drive
 communication setting

Channel	id	Device type	Hardware version	Firmware version	Communication version	Unique code
<input checked="" type="checkbox"/> Channel 1	id: 1	XR_FOC_ESC_V5	HW597KZ1V4C1406	C026007V160Z	04.0.03_CAN	CM
<input type="checkbox"/> Channel 2	id: 0					
<input type="checkbox"/> Channel 3	id: 0					
<input type="checkbox"/> Channel 4	id: 0					
<input type="checkbox"/> Channel 5	id: 0					
<input type="checkbox"/> Channel 6	id: 0					
<input type="checkbox"/> Channel 7	id: 0					
<input type="checkbox"/> Channel 8	id: 0					

Scanning **Update**

Available version : C026007V160Z

Device type and hardware version: XR_FOC_ESC_V5 - HW597KZ1V4C1406

V2.0.5 Connection Status: ● Communication Status: ●

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

DataLink USB UART

Firmware upgrade **CAN tuning** **UART tuning**

Update information Database version: 2022-06-21

2022-10-29 16:58:56:989 : Different date, Start syncing...
 2022-10-29 16:58:57:066 : Date update failed.
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Types

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

316 Software version
LINK-01.2.14-C

Device Information

Communication information
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Channel	id	Device type	Hardware version	Firmware version	Communication version	Unique code
<input checked="" type="checkbox"/> Channel 1	id: 1	XR_FOC_ESC_V5	HW597KZ1V4C1406	C026007V160Z	04.0.03_CAN	CM
<input type="checkbox"/> Channel 2	id: 0					
<input type="checkbox"/> Channel 3	id: 0					
<input type="checkbox"/> Channel 4	id: 0					
<input type="checkbox"/> Channel 5	id: 0					
<input type="checkbox"/> Channel 6	id: 0					
<input type="checkbox"/> Channel 7	id: 0					
<input type="checkbox"/> Channel 8	id: 0					

Scanning **Update**

Available version : C026007V160Z
 C026007V160Z

Device type and hardware version: XR_FOC_ESC_V5 - HW597KZ1V4C1406

V2.0.5 Connection Status: ● Communication Status: ●

Waiting for the upgrade complete.

USB UART

Firmware upgrade
CAN tuning
UART tuning

Update information

Database version: 2022-06-21

2022-10-29 16:58:57:066 : Date update failed.
2022-10-29 17:03:48:116 : Channel 1handshake succeeded.
2022-10-29 17:11:50:006 : Channel 1 from C026007V160Z upgrade to C026007V160Z

Types

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

Device Information

Communication information

500KHz
Hobbywing
1. ESC drive
communication setting

Device type
Hardware version
Firmware version
Communication version
Unique code

Channel	id	Device type	Hardware version	Firmware version	Communication version	Unique code
Channel 1	1	XR_FOC_ESC_V5	HW597KZ1V4C1406	C026007V160Z	04.0.03_CAN	CM
Channel 2	0					
Channel 3	0					
Channel 4	0					
Channel 5	0					
Channel 6	0					
Channel 7	0					
Channel 8	0					

Scanning
Update

Available version : C026007V160Z

Device type and hardware version: XR_FOC_ESC_V5 - HW597KZ1V4C1406

316 Software version
LINK-01.2.14-C

V2.0.5
Connection Status: ●
Communication Status: ●

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.

USB UART

Firmware upgrade
CAN tuning
UART tuning

Update information

Database version: 2022-06-21

2022-10-29 17:03:48:116 : Channel 1handshake succeeded.
2022-10-29 17:11:50:006 : Channel 1 from C026007V160Z upgrade to C026007V160Z
2022-10-29 17:12:17:598 : Channel 1 from C026007V160Z upgrade to C026007V160Z successfully.

Types

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

Device Information

Communication information

500KHz
Hobbywing
1. ESC drive
communication setting

Device type
Hardware version
Firmware version
Communication version
Unique code

Channel	id	Device type	Hardware version	Firmware version	Communication version	Unique code
Channel 1	1	XR_FOC_ESC_V5	HW597KZ1V4C1406	C026007V160Z	04.0.03_CAN	CM
Channel 2	0					
Channel 3	0					
Channel 4	0					
Channel 5	0					
Channel 6	0					
Channel 7	0					
Channel 8	0					

Scanning
Update

Available version : C026007V160Z

Device type and hardware version: XR_FOC_ESC_V5 - HW597KZ1V4C1406

316 Software version
LINK-01.2.14-C

V2.0.5
Connection Status: ●
Communication Status: ●



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V2, Datalink V2 Communication Device Firmware, Datalink V2, Communication Device Firmwar
e, Device Firmware