



HOBBYWING Datalink Firmware User Guide

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HOBBYWING Datalink Firmware



Product Information

The Datalink is a device that allows for firmware upgrades via UART connection using a Type-C cable. There are two types of Datalink available: a new type and a history type, depending on the production date. Please ensure that you choose the appropriate type for scanning.

Product Usage Instructions

1. To upgrade the firmware, select “Uart-> ESC” on the Datalink after scanning. The ESC information will be displayed on the screen.
2. Power on the ESC and wait for approximately 3 seconds, then click “Stop”.
3. On the Datalink, click on the drop-down list at “Available version” and select the desired firmware version.
4. Click “Update” to start the firmware upgrade process.
5. Wait for the upgrade to complete.
6. After the upgrade is completed, repeat the steps on page 8 of the user manual to check whether the upgrade was successful or not.
7. If the upgrade fails due to accidental power off during upgrading or any other cases, please repeat all the upgrade steps again.

Datalink Firmware Upgrade
Guide UART

TOOLS

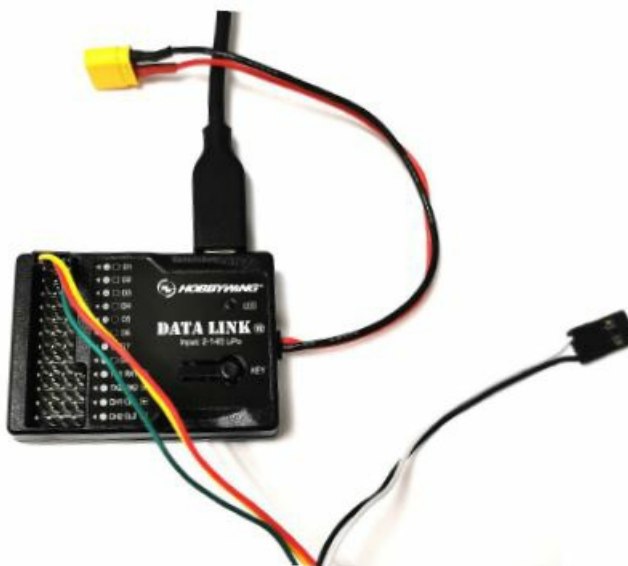


Datalink



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.

SOFTWARE

DataLink-HW > DataLink-HW

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

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: [v]

Device type and hardware version: [v]

V2.0.5 Connection Status: Communication Status:

DataLink

Firmware CAN tuning UART

Update information Database version: 2020-11-03

2023-07-19 16:39:32: 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 ECT05 V1.0
 MTPWMTTOOLS V1.1.2
 LINK-01.2.15-C
 MTPWMTTOOLS V1.09

V2.0.5 Connection Status: Communication Status:

TIPS

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

DataLink

Firmware CAN tuning UART

Update information Database version: 2020-11-03

2023-07-19 18:38:44: 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
Channel 1			
Channel 2			
Channel 3			
Channel 4			
Channel 5			
Channel 6			
Channel 7			
Channel 8			

316 Software version: LINK-01.2.09-U

Scanning Update

Available version: **LINK-01.2.10-U**

Device type and hardware version:

V2.0.5 Connection Status: Communication Status:

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".

DataLink 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

316 Software version
 LINK-01.2.09-U

Device Information

	Device version	Hardware version	Firmware version	Unique code
<input checked="" 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				

Stop **Update**

Available version:

Device type and hardware version:

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 Firmware CAN tuning UART

Update information Database version: 2020-11-03

2023-07-20 10:00:29.472 : 316 time: 2023-7-20 10:00:29
 2023-07-20 10:00:29.474 : System time: 2023-7-20 10:00:29
 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				

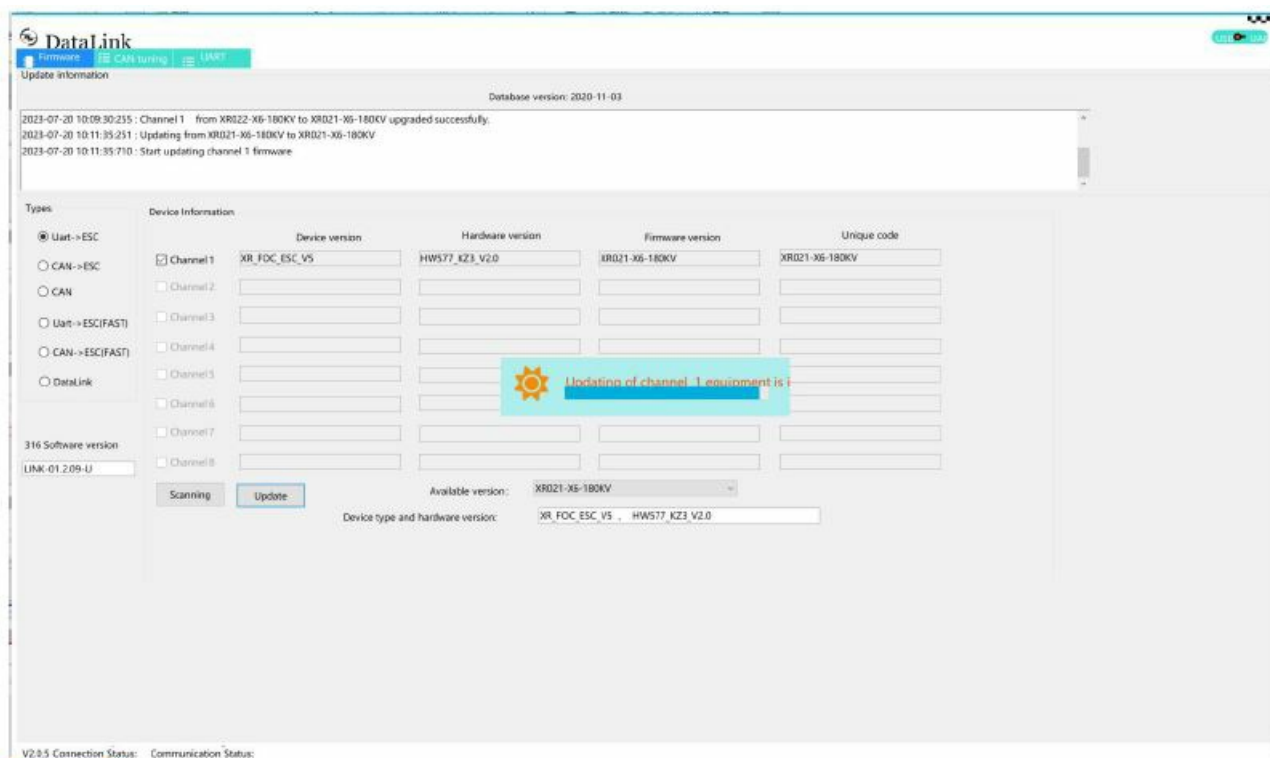
Scanning **Update**

Available version:

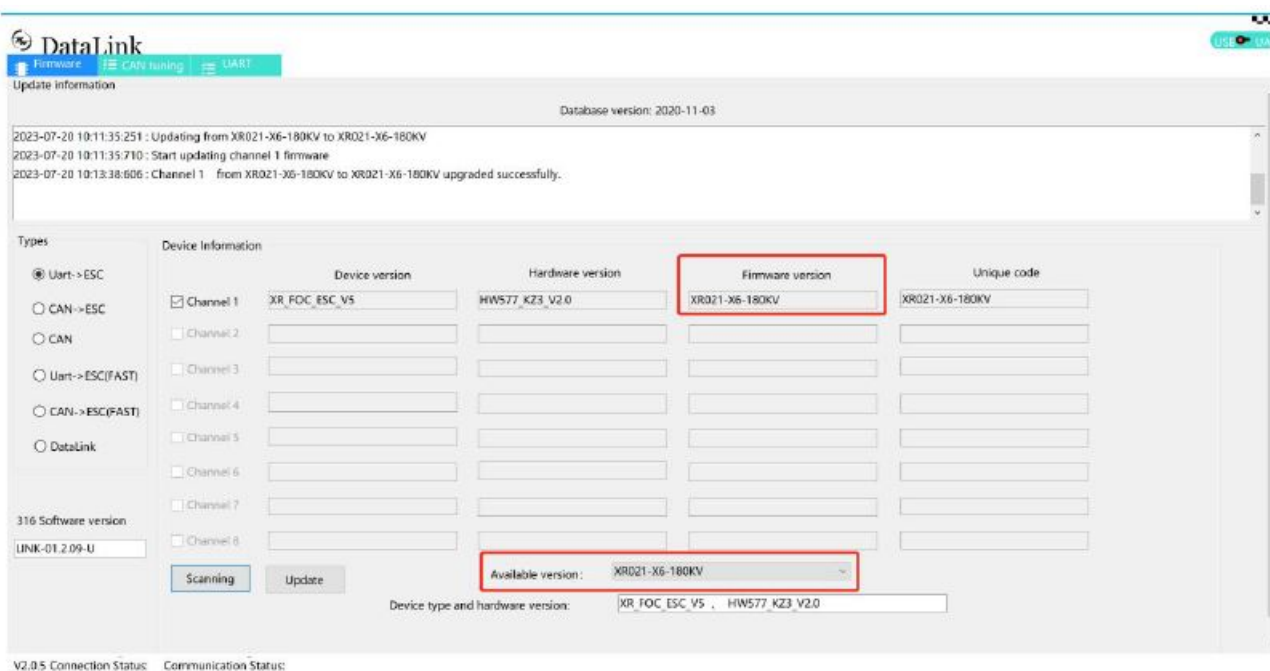
Device type and hardware version:

V2.0.5 Connection Status: Communication Status:


Waiting for the upgrade complete.



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.



Documents / Resources

 <p>Datalink Firmware Upgrade Guide (UART)</p>	<p>HOBBYWING Datalink Firmware [pdf] User Guide Datalink Firmware, Datalink, Firmware</p>
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