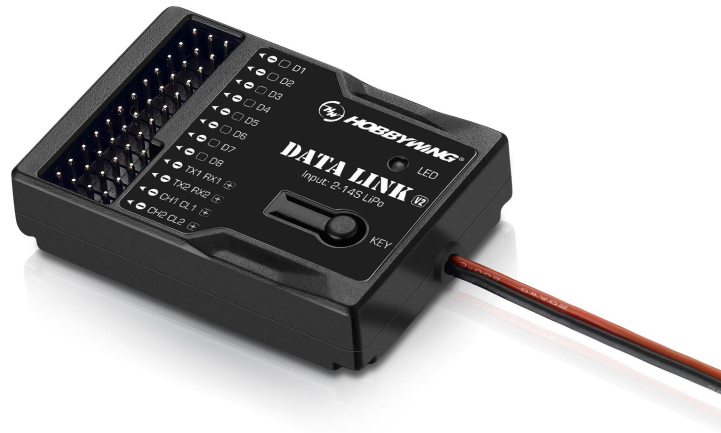




Datalink Firmware Upgrade  
Guide (CAN)

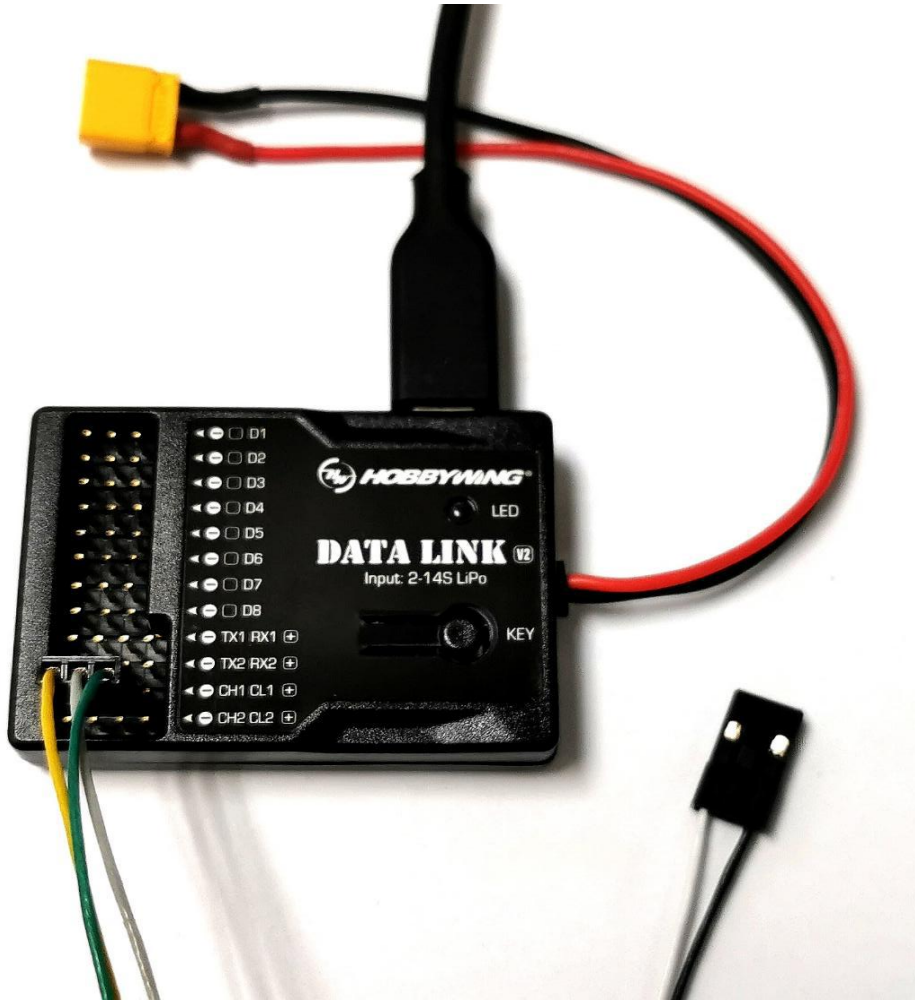
Tools:



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:



The screenshot shows a Windows File Explorer window with the following table of files and folders:

名称	修改日期	类型	大小
AutoSave	2022/5/17 13:54	文件夹	
Lib	2022/3/4 16:49	文件夹	
Log	2022/1/19 14:59	文件夹	
MSVCR100	2022/4/19 10:43	文件夹	
AIRCRAFT_ESC_settings.db3	2022/3/4 16:47	DB3 文件	112 KB
AIRCRAFT_ESC_version_control	2022/3/4 16:48	配置设置	7 KB
<b>DataLink</b>	2020/7/10 15:28	应用程序	2,811 KB
DataLink.exe.config	2019/8/20 14:34	CONFIG 文件	2 KB
DataLink.pdb	2020/7/16 14:21	PDB 文件	1,144 KB
LCD_settings.db3	2020/7/29 13:20	DB3 文件	4,444 KB
LCD_version_control	2022/3/17 9:52	配置设置	2 KB
msvcr100.dll	2009/8/24 10:15	应用程序扩展	744 KB
Newtonsoft.Json	2019/4/22 0:57	XML 文档	543 KB
System.Data.SQLite	2019/6/8 16:50	XML 文档	1,064 KB
UART_D.DAT	2018/8/17 17:50	DAT 文件	2 KB
UART_L.DAT	2018/8/9 15:41	DAT 文件	10 KB
version_control	2020/7/28 11:26	XML 文档	1 KB

The 'DataLink' file is highlighted with a red box, and a red arrow points to it from the right side of the window.

- Firmware upgrade
- CAN tuning
- UART tuning

Update information

Database version: 2022-06-21

2022-10-29 16:50:51:826 : 316 time: 2022-10-29 16:50:51  
2022-10-29 16:50:51:829 : System time: 2022-10-29 16:50:51  
2022-10-29 16:50:51:831 : 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-01.2.14-C

Scanning Update Available version: [dropdown] Device type and hardware version: [input]

Confirm that is the latest version

- Firmware upgrade
- CAN tuning
- UART tuning

Update information

Database version: 2022-06-21

```
2022-10-29 16:51:51:154 : 316 time: 2022-10-29 16:51:51
2022-10-29 16:51:51:156 : System time: 2022-10-29 16:51:51
2022-10-29 16:51:51:158 : 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-01.2.14-C

Available version: LINK-10U-CNF399 ✓

If not please update Datalink version from here

Update

Update information

Database version: 2022-06-21

2022-10-29 16:58:56:987 : System time: 2022-10-29 16:58:56  
2022-10-29 16:58:56:989 : Different date, Start syncing...  
2022-10-29 16:58:57:066 : Date update failed.

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

Device type	Hardware version	Firmware version	Communication version	Unique code
Channel 1 id:				
Channel 2 id:				
Channel 3 id:				
Channel 4 id:				
Channel 5 id:				
Channel 6 id:				
Channel 7 id:				
Channel 8 id:				

Scanning Update Available version: Device type and hardware version:

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

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 1handshake 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

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	EM
<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

### Tips:

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



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 1handshake 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

	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	EM
<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

**Tips:**

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

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

316 Software version

LINK-01.2.14-C

Device Information

Communication information

500Khz

Hobbywing

1. ESC drive

communication setting

Device type	Hardware version	Firmware version	Communication version	Unique code
<input checked="" type="checkbox"/> Channel 1				IM
<input type="checkbox"/> Channel 2				
<input type="checkbox"/> Channel 3				
<input type="checkbox"/> Channel 4				
<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				

Available version : C026007V160Z

Device type and hardware version: XR\_FOC\_ESC\_V5 , HW597KZ1V4C1406

**Tips:**  
 Waiting for the upgrade complete.

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

316 Software version  
LINK-01.2.14-C

Device Information

Communication information

500Khz  
Hobbywing  
1. ESC drive  
communication setting

	Communication information	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	EM
<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

**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.