

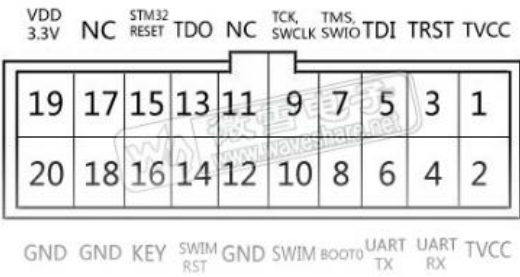


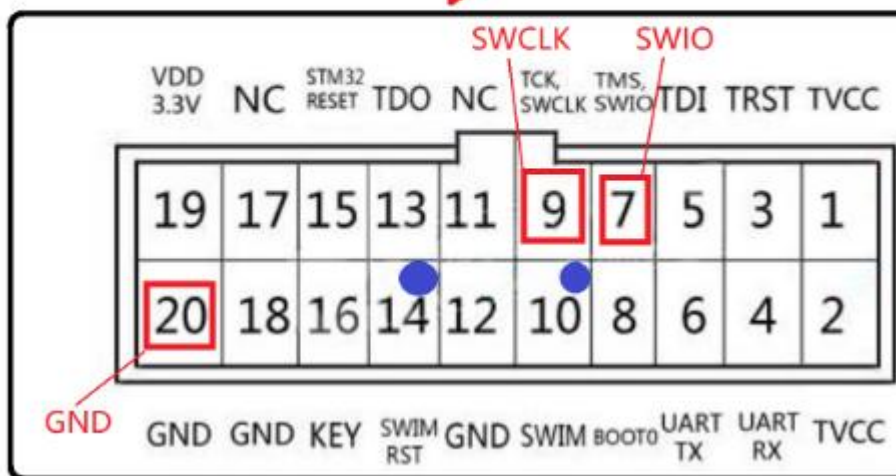
1. STLINK 接口定义

下面为ST-Link/V2 JTAG/SWD接口定义：

仿真器端口	连接目标板	功能
1. TVCC	MCU电源VCC	连接STM32目标板的电源VCC
2. TVCC	MCU电源VCC	连接STM32目标板的电源VCC
3. TRST	GND	GROUND
4. UART-RX	GND	GROUND
5. TDI	TDI	连接STM32的JTAG TDI
6. UART-TX	GND	GROUND
7. TMS, SWIO	TMS, SWIO	连接STM32的JTAG的TMS, SWIO的SW IO
8. BOOT0	GND	GROUND
9. TCK, SWCLK	TCK, SWCLK	连接STM32的JTAG的TCK, SWIO的SW CLK
10. SWIM	GND	GROUND
11. NC	NC	Unused
12. GND	GND	GROUND
13. TDO	TDO	连接STM32的JTAG TDO
14. SWIM-RST	GND	GROUND
15. STM32-RESET	RESET	连接STM32目标板的RESET端口
16. KEY	NC	GROUND
17. NC	NC	Unused
18. GND	GND	GROUND
19. VDD	NC	VDD (3.3V)
20. GND	GND	GROUND

下面是ST-Link/V2 JTAG/SWD标准的接口排列：





2. 安装 STM32 ST-LINK 和对应 stlink 驱动

到官网 <https://www.st.com/en/development-tools/stsw-link004.html> 下载对应版本的驱动



Assembler/Linker or C compilers

• Compare file with target memory

[Read more](#) ▼

Get Software

Part Number	General Description	Latest version	Supplier	ECCN (EU)	ECCN (US)	Download
STSW-LINK004	STM32 ST-LINK utility	4.6.0	ST	NEC	3D991	Get latest



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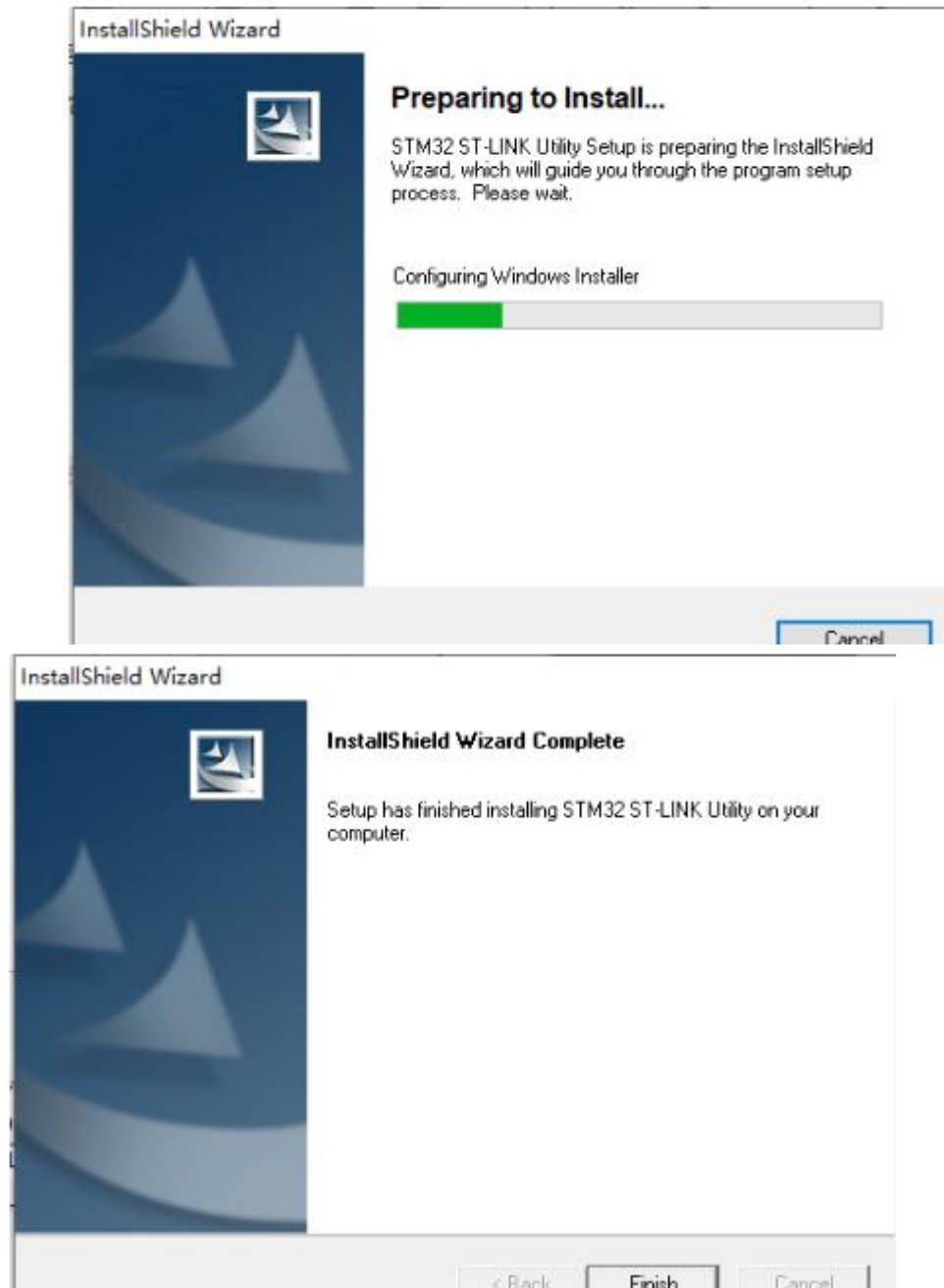
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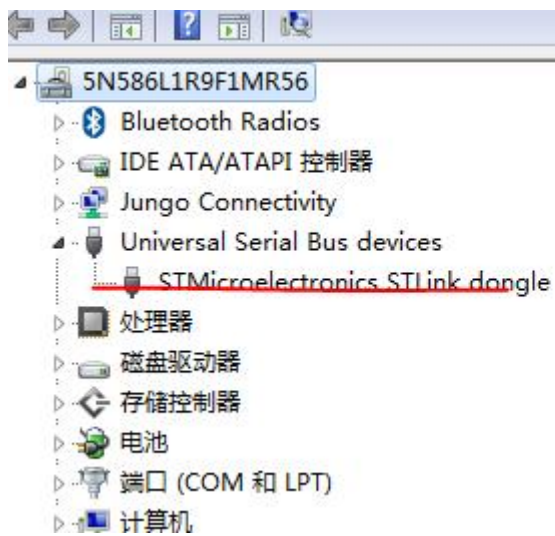
或者在资料里直接下载

en.stsw-link009.zip	安装包	2024-06-24 20:11	360压缩 ZIP 文件	5,187 KB
ST-LINK Utility.zip		4-06-24 20:06	360压缩 ZIP 文件	26,004 KB
st-link_v2_usbdriver.exe		2024-06-24 20:13	应用程序	11,299 KB

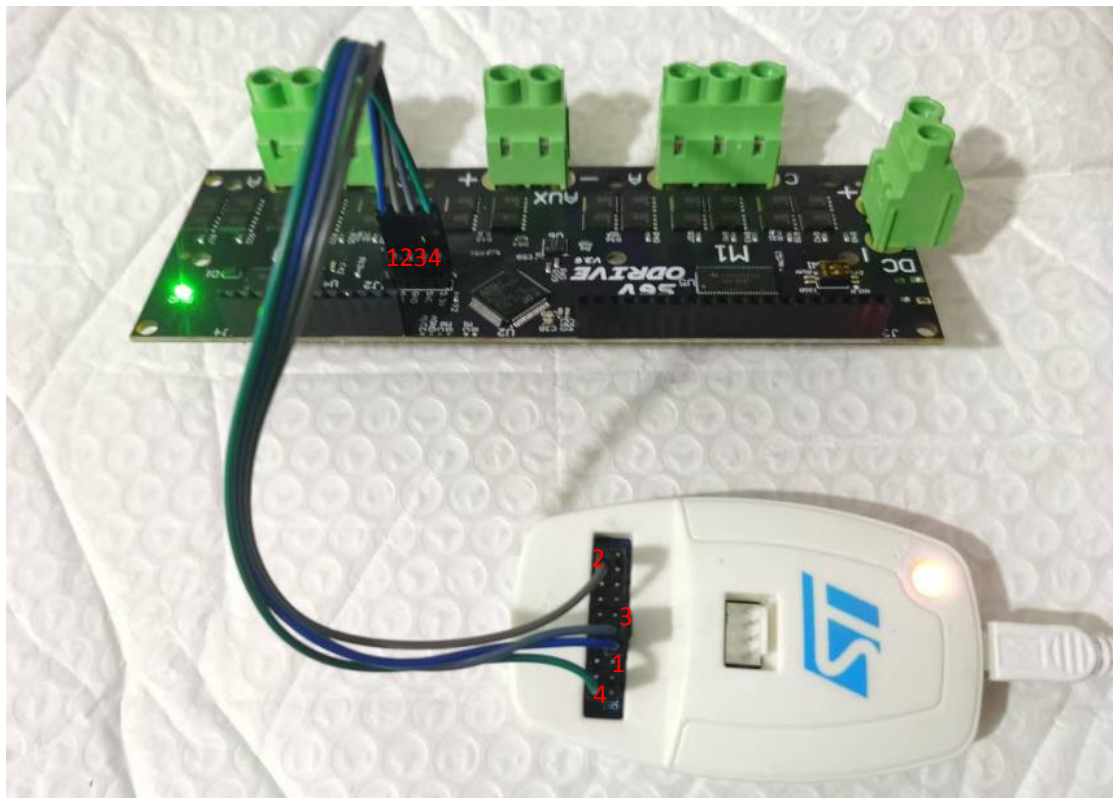
下载后安装



安装好后会在设备管理器里面显示



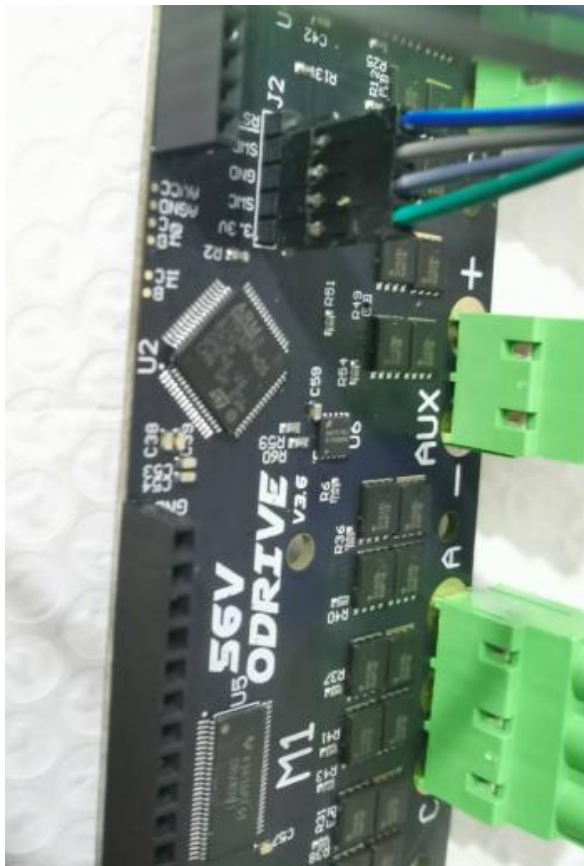
按照下面接线（按照数字对应）





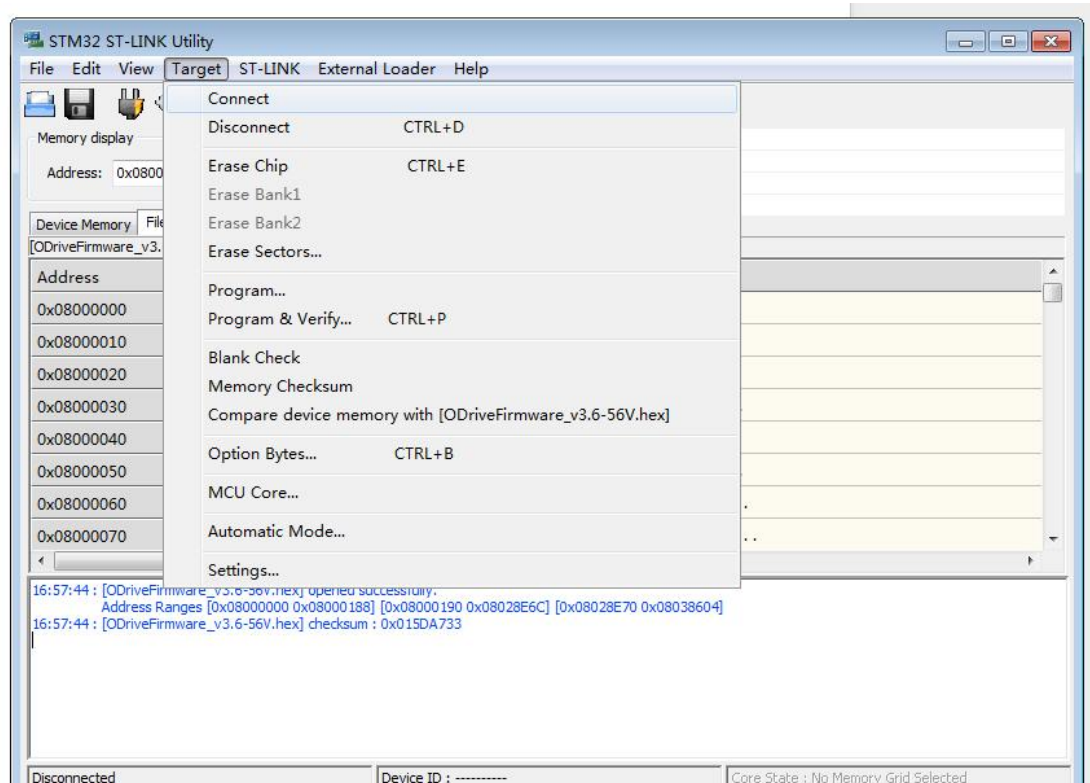
ODRIVE 开发

联控智能无刷电机开发板教程

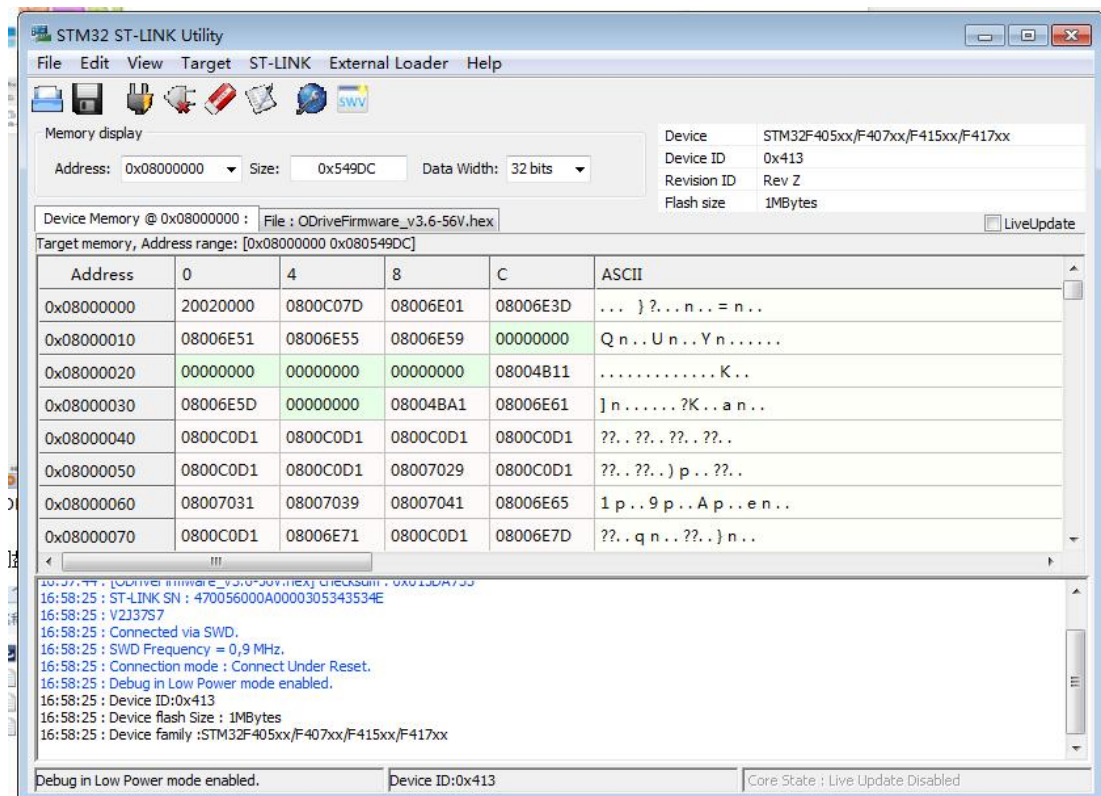




点击 Target--Connect

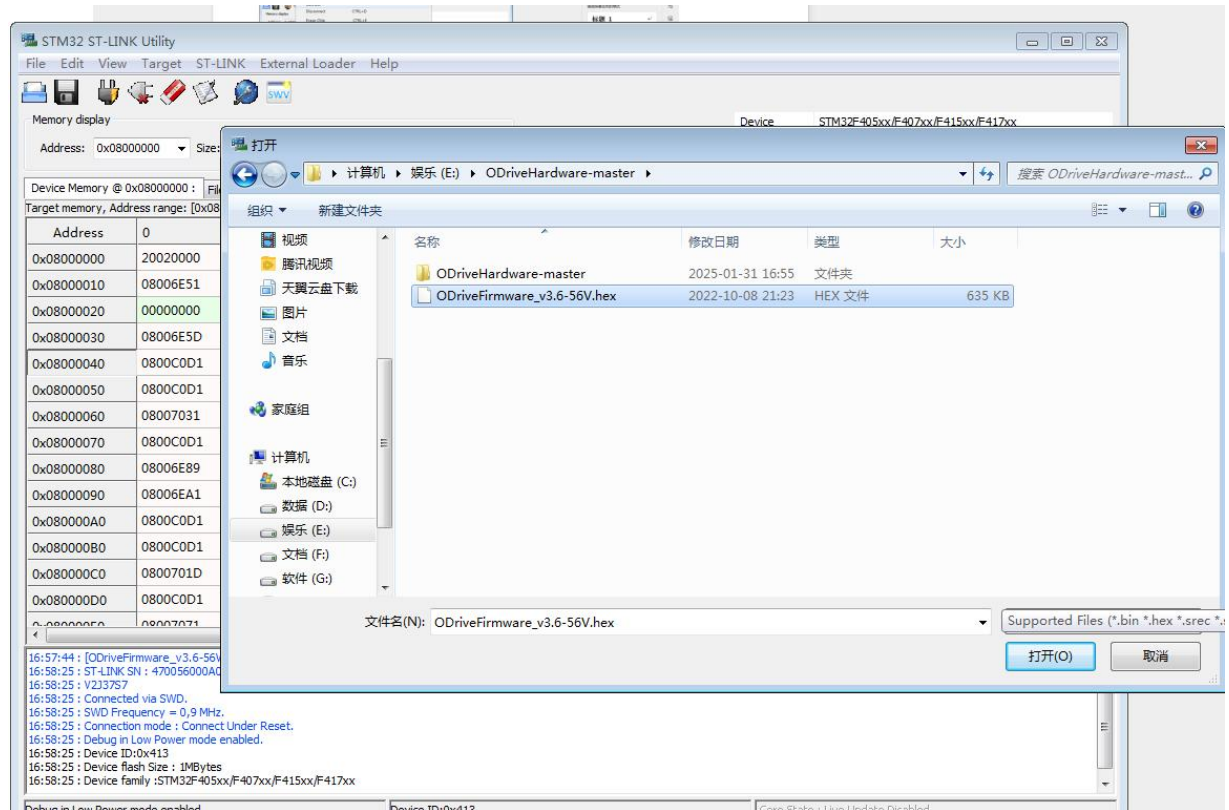


连接后如下图

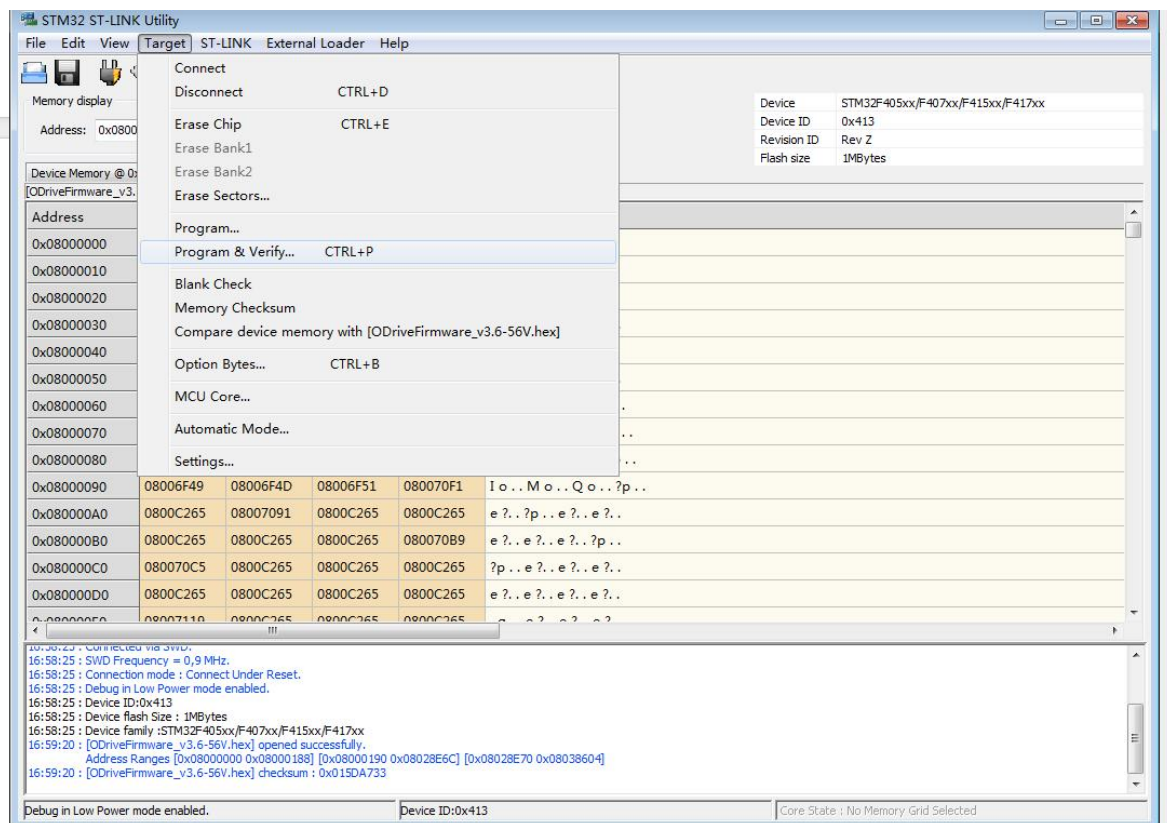




加载 ODriveFirmware_v3.6-56V.hex 固件



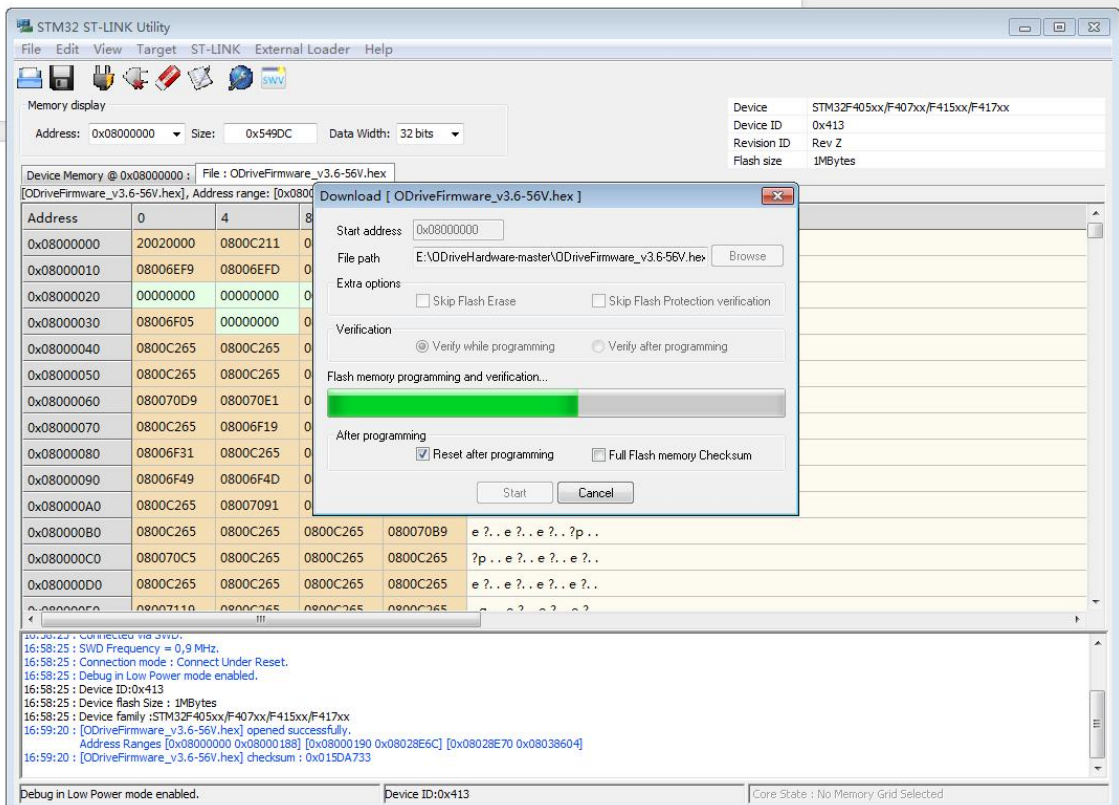
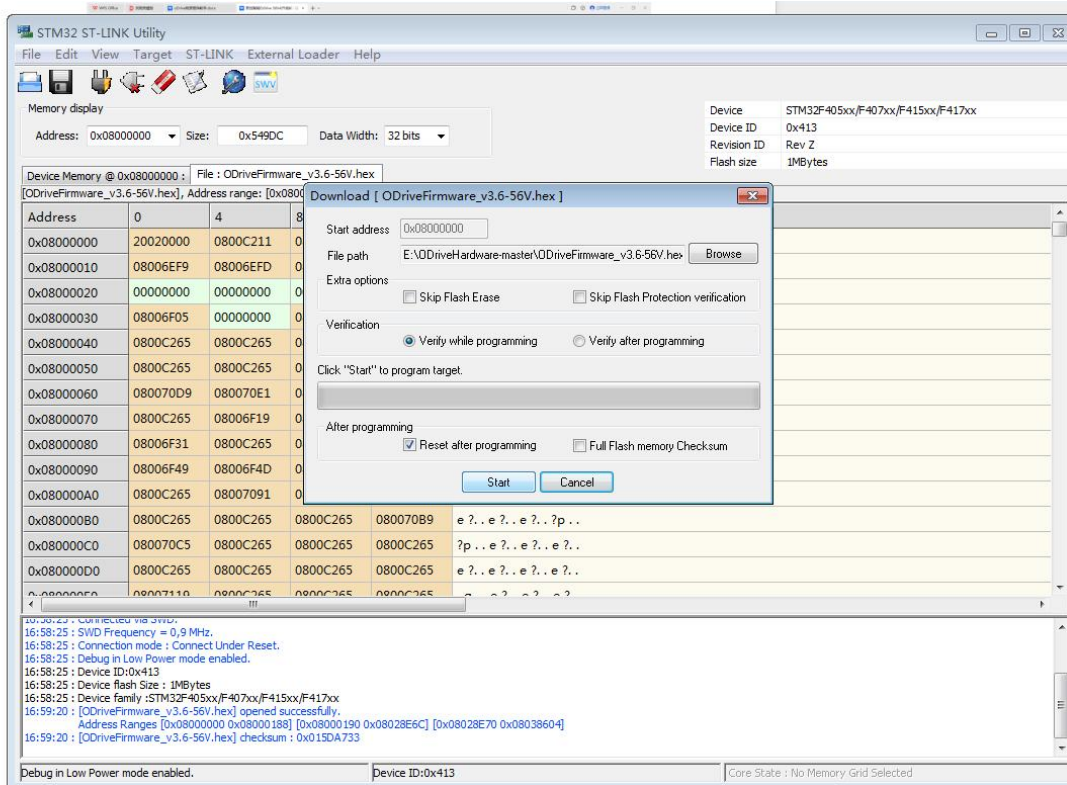
加载后点击，Target--Program&Verify 进行下载





ODRIVE 开发

联控智能无刷电机开发板教程





下载成功如下图所示



```
16:58:25 : Device ID:0x413
16:58:25 : Device flash Size : 1MBytes
16:58:25 : Device family :STM32F405xx/F407xx/F415xx/F417xx
16:59:20 : [ODriveFirmware_v3.6-56V.hex] opened successfully.
          Address Ranges [0x08000000 0x08000188] [0x08000190 0x08028E6C] [0x08028E70 0x08038604]
16:59:20 : [ODriveFirmware_v3.6-56V.hex] checksum : 0x015DA733
17:00:00 : Memory programmed in 8s and 564ms.
17:00:00 : Verification...OK
17:00:00 : Programmed memory Checksum: 0x015DA733
17:00:02 : Disconnected from device.
```

更新固件可以参考上面 stlink 升级方法