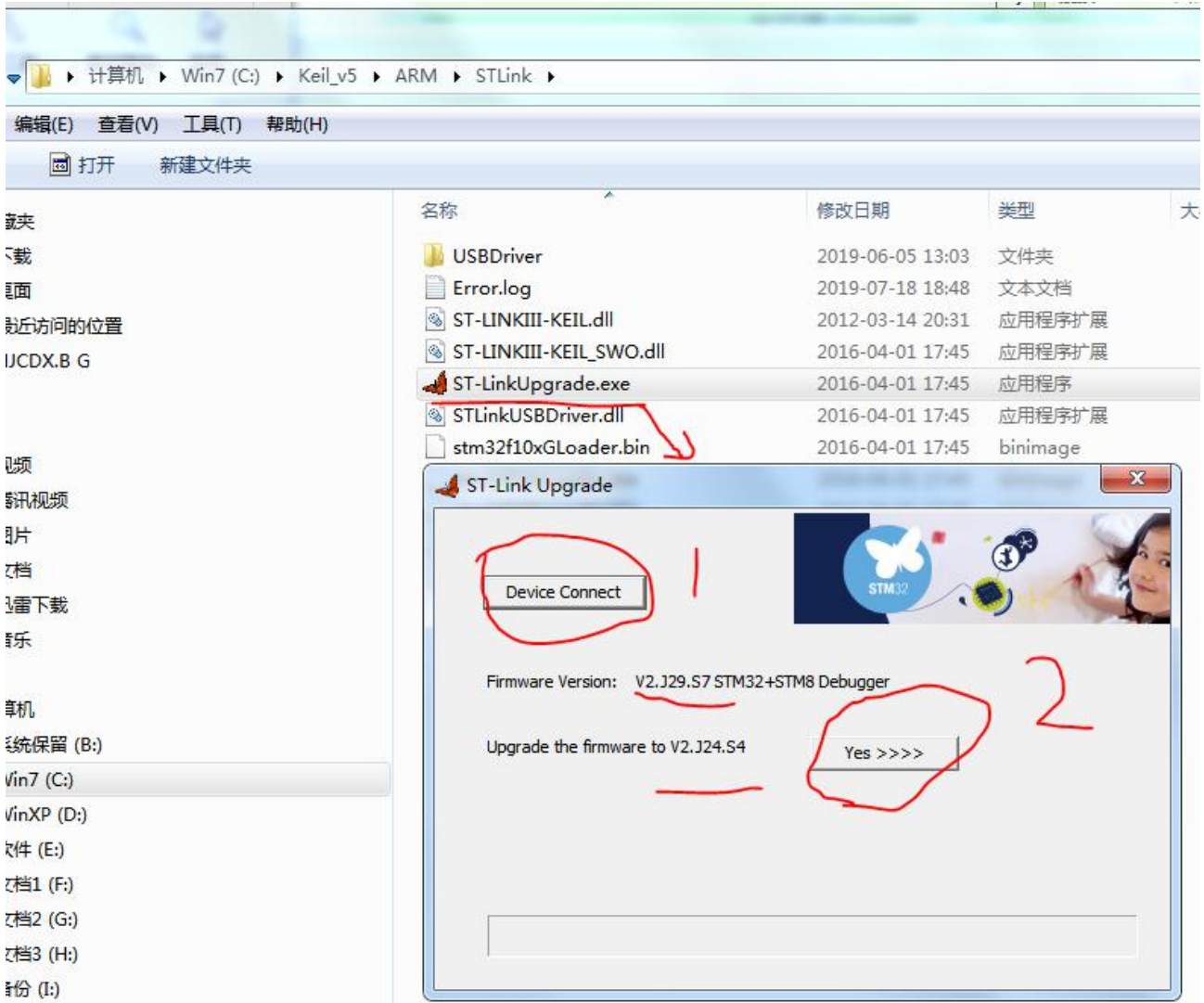


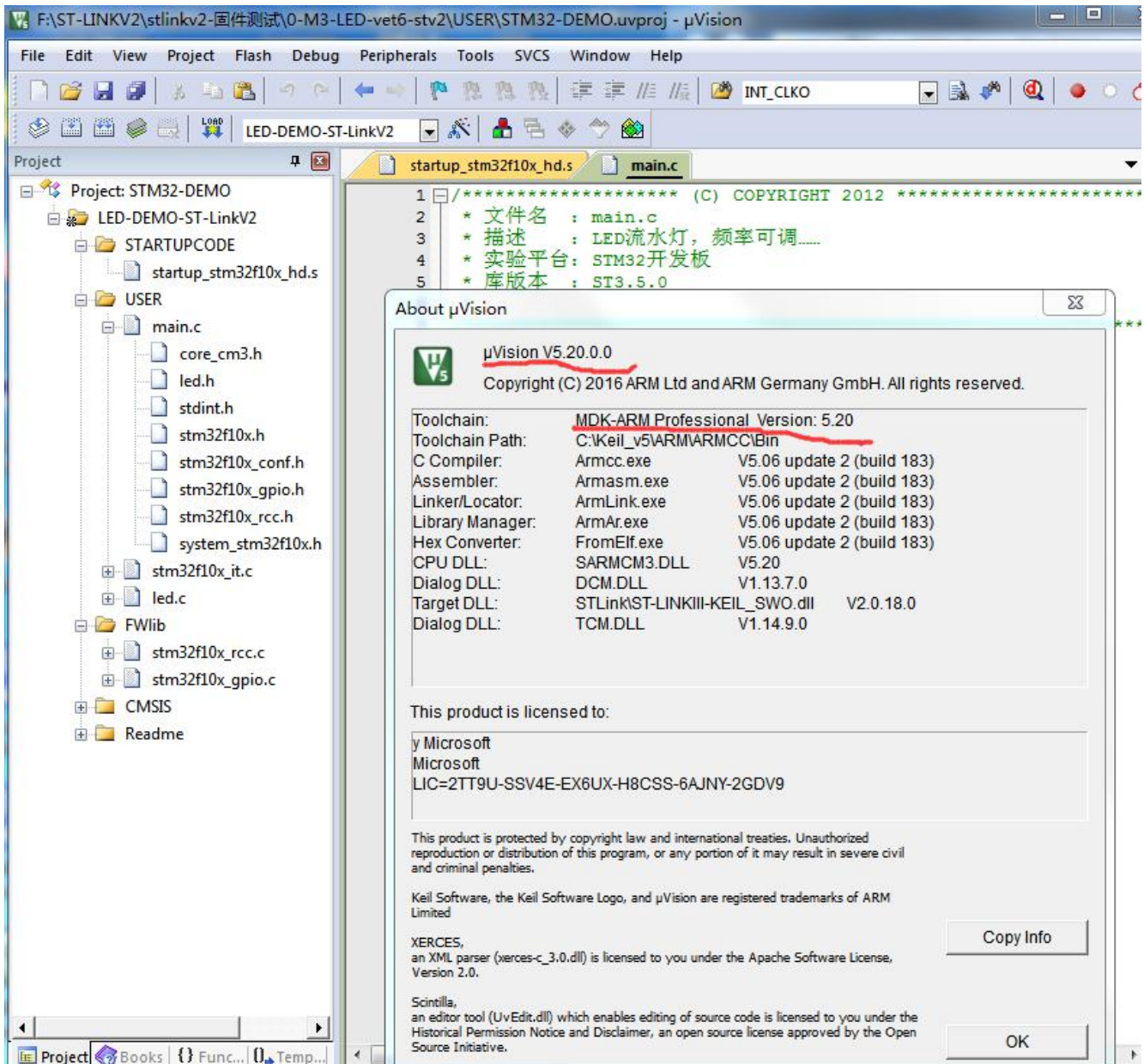
一，电脑系统 win7，软件：MDK5.20 版本；

二，安装 st-link v2 驱动：C:\Keil_v5\ARM\STLink\USBDriver\dpinst_x86.exe 或者：ST-Link_V2_USBdriver.exe，注意关掉系统数字签名（win7,8,10），不会关的，百度下，照做，否则无法安装驱动

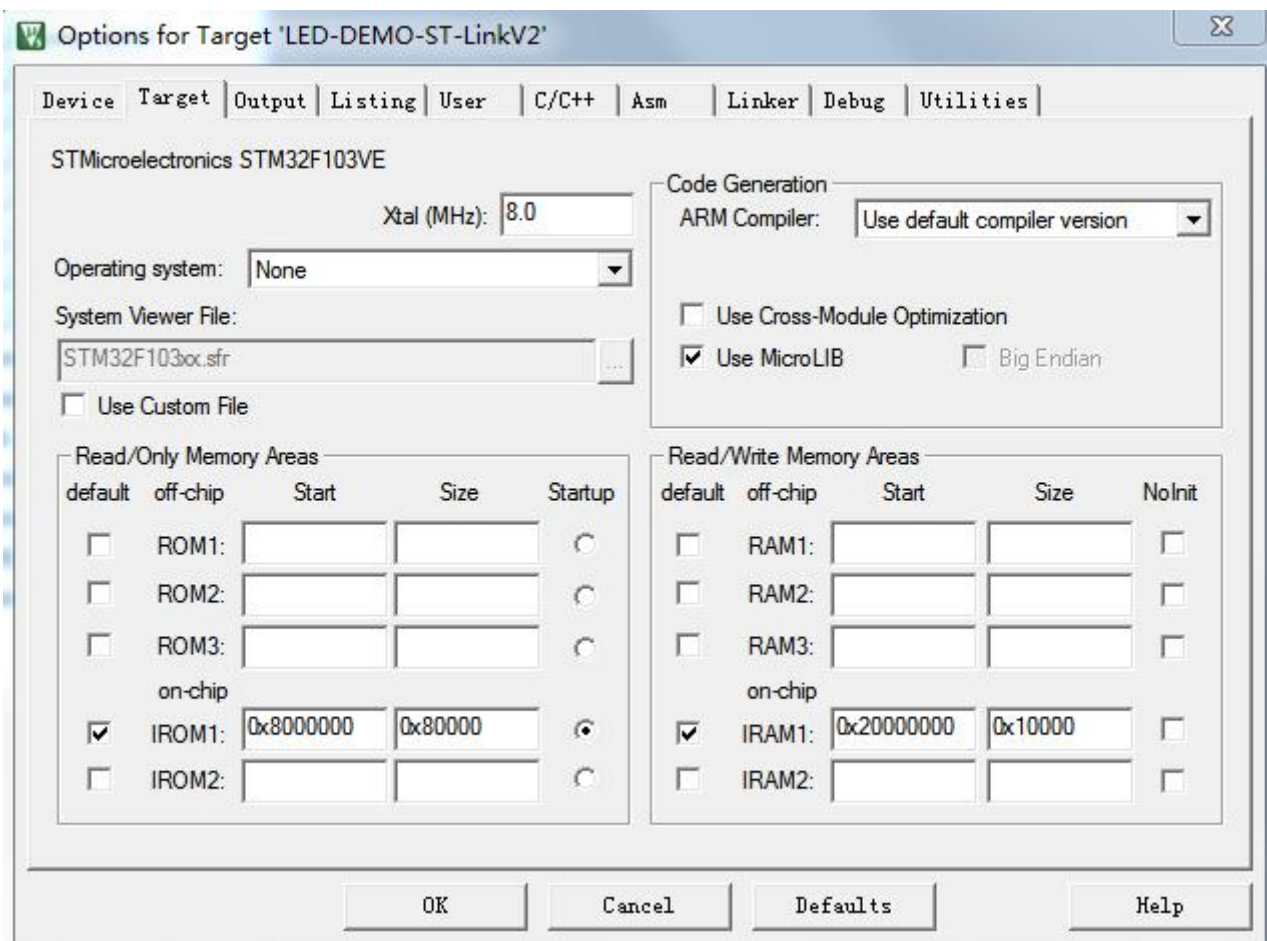
三，更新 st-link v2 内部固件:打开 C:\Keil_v5\ARM\STLink\ST-LinkUpgrade.exe



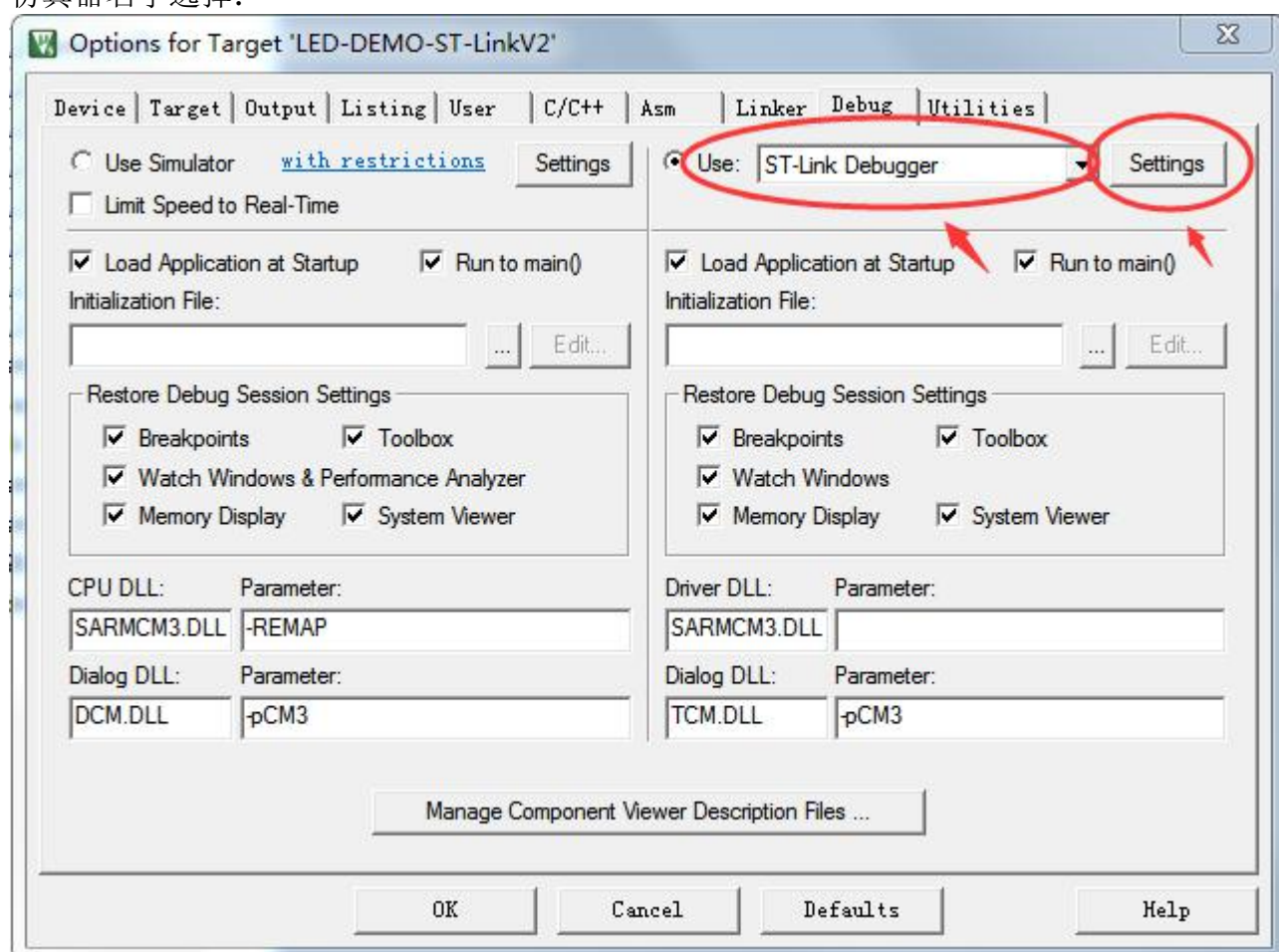
四，软件设置如下：



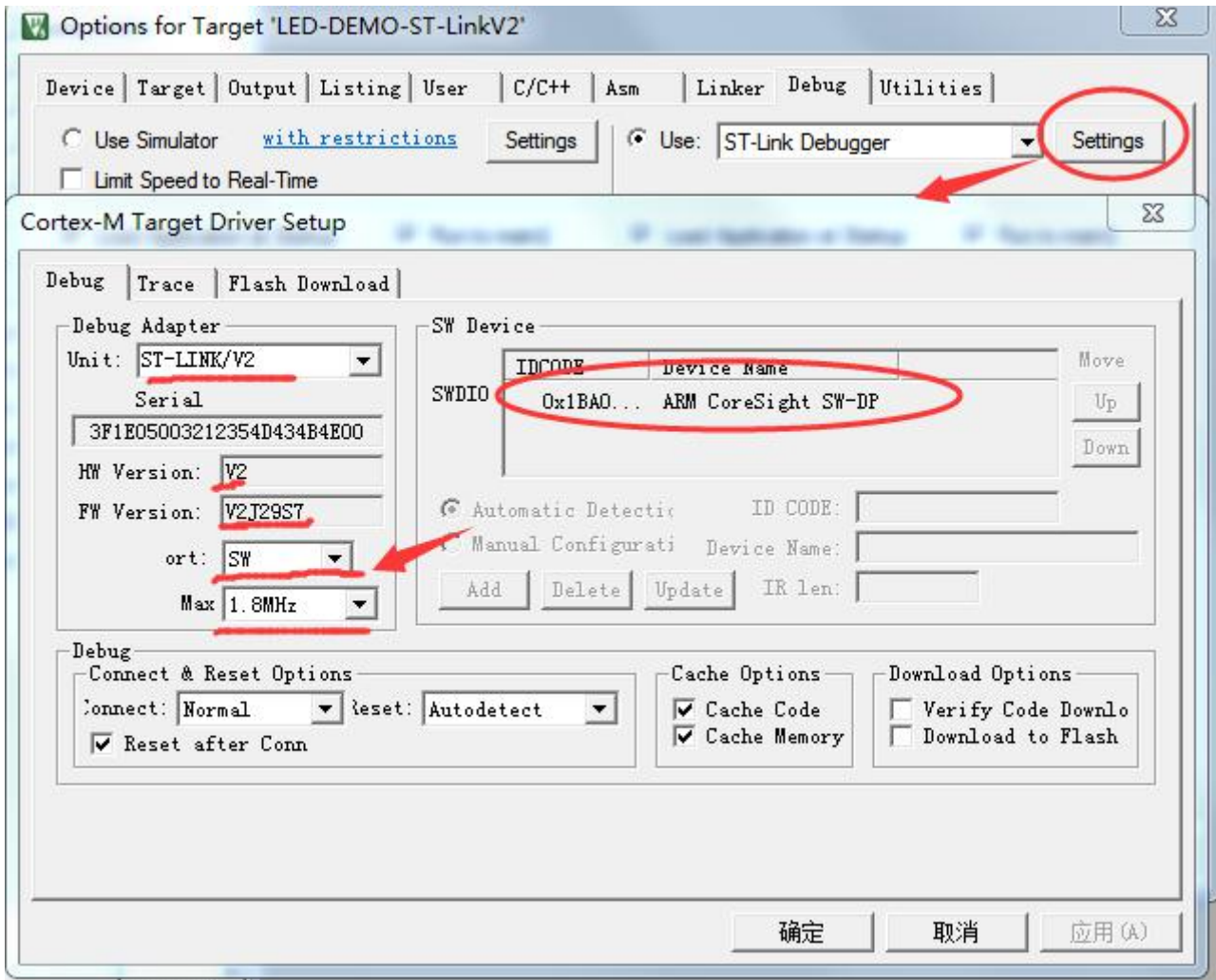
芯片是: STM32F103VE



仿真器名字选择:



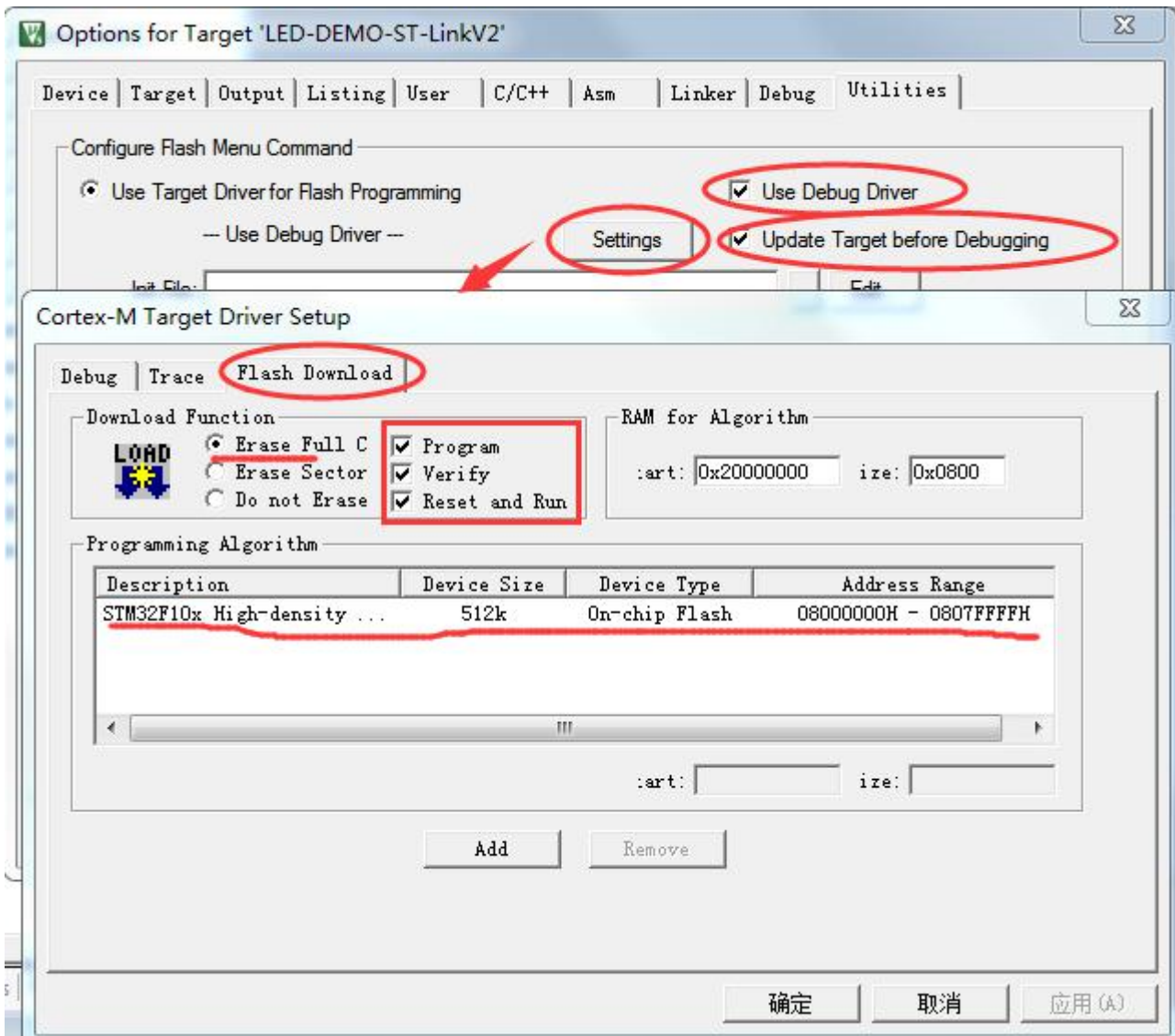
点击 Settings，设置仿真器接口 SW:



设置单片机 flash 大小（这个设置对点击 download 才能正常下载



) :



点击调试:

F:\ST-LINKV2\stlinkv2-固件测试\0-M3-LED-vet6-stv2\USER\STM32-DEMO.uvproj - µVision

File Edit View Project Flash Debug Peripherals Tools SVCS Window Help

INT_CLKO

Registers

Register	Value
R0	0x0800017B
R1	0x20000428
R2	0x00000000
R3	0x08000B1D
R4	0x08000B4C
R5	0x08000B4C
R6	0x00000000
R7	0x00000000
R8	0x00000000
R9	0x20000160
R10	0x00000000
R11	0x00000000
R12	0x00000060
R13 (SP)	0x20000428
R14 (LR)	0x08000B05
R15 (PC)	0x0800017A
xPSR	0x81000000
Banked	
System	
Internal	
Mode	Thread
Privilege	Privileged
Stack	MSP
States	62926332
Sec	6.29263320

Disassembly

```

0x08000178 BD08 POP {r3,pc}
24: LED_GPIO_Config();
25:
26: while (1)
27: {
0x0800017A F000F82B BL.W LED_GPIO_Config (0x080001D4)

```

startup_stm32f10x_hd.s main.c

```

16 * 函数名: main
17 * 描述 : 主函数
18 * 输入 : 无
19 * 输出 : 无
20 */
21 int main(void)
22 {
23     /* LED 端口初始化 */
24     LED_GPIO_Config();
25
26     while (1)
27     {
28         LED1( ON ); // 亮
29         Delay(0x0FFFFFF);
30         LED1( OFF ); // 灭
31
32         LED2( ON );
33         Delay(0x0FFFFFF);
34         LED2( OFF );
35     }
36 }
37
38
39 void Delay( __IO u32 nCount) //简单的延时函数
40 {
41     for(; nCount != 0; nCount--);
42 }

```

Command

Load "...\\Output\\STM32-DEMO.axf"

Call Stack + Locals

Name	Location/Value	Type
main	0x00000000	int f()

ASSIGN BreakDisable BreakEnable BreakKill BreakList

Call Stack + Loc... Trace Exceptions Event C

ST-Link Debugger