

STM32 STLink Utility

How to ...

STM32 STLink Utility - overview

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Menu

Shortcuts

Memory address

MCU's info

File data

Console

The screenshot shows the STM32 ST-Link Utility application window. The menu bar includes File, Edit, View, Target, ST-LINK, External Loader, and Help. The toolbar contains icons for file operations and connection. The Memory display section shows the current address (0x20000000), size (0x56A0), and data width (32 bits). The MCU's info panel displays details for a STM32L47x/L48x device, including Device ID (0x415), Revision ID (Rev Y), and Flash size (1MBytes). The File data section shows a memory dump for the file 01_RUNMODE_FLASH.bin, with columns for Address, hex data, and ASCII. The Console window displays system messages such as 'ST-LINK SN: 0672FF485649785087173822', 'ST-LINK Firmware version: V2J23M9', and 'Connected via SWD'. The status bar at the bottom indicates 'Debug in Low Power mode enabled', 'Device ID: 0x415', and 'Core State: Live Update Disabled'.

Address	0	4	8	C	ASCII
0x20000000	20010E28	20005511	2000552D	20005531	(. .U. -U. 1U.
0x20000010	20005535	20005539	2000553D	00000000	5U. 9U. =U.
0x20000020	00000000	00000000	00000000	20005541AU.
0x20000030	20005545	00000000	20005549	200054F9	EU.IU. ùT.
0x20000040	2000554D	20005551	20005555	20005559	MU. QU. UU. YU.
0x20000050	2000555D	20005561	20005565	20005569	JU. aU. eU. iU.
0x20000060	2000556D	20005571	20005575	20005507	mU. qU. uU. .U.
0x20000070	20005579	2000557D	20005581	20005585	yU. }U. U. ...U.
0x20000080	20005589	2000558D	20005591	20005595	%U. U. 'U. •U.

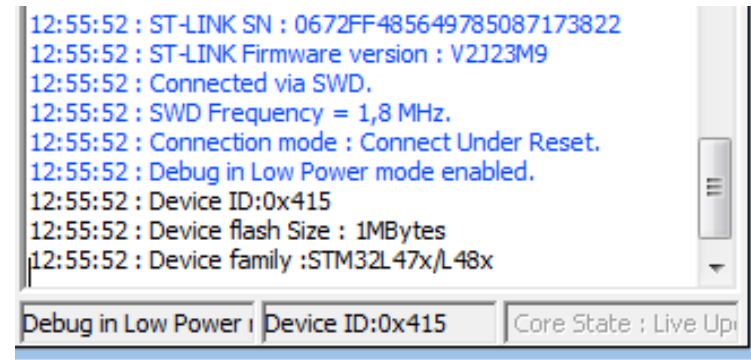
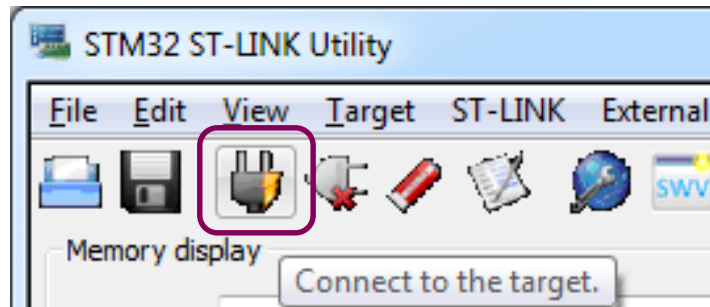
```
12:45:59 : [01_RUNMODE_FLASH.bin] opened successfully.
12:46:01 : ST-LINK SN : 0672FF485649785087173822
12:46:01 : ST-LINK Firmware version : V2J23M9
12:46:01 : Connected via SWD.
12:46:01 : SWD Frequency = 1,8 MHz.
12:46:01 : Connection mode : Connect Under Reset.
12:46:01 : Debug in Low Power mode enabled.
12:46:01 : Device ID:0x415
12:46:01 : Device flash Size : 1MBytes
12:46:01 : Device family :STM32L47x/L48x
```

Debug in Low Power mode enabled. Device ID:0x415 Core State : Live Update Disabled

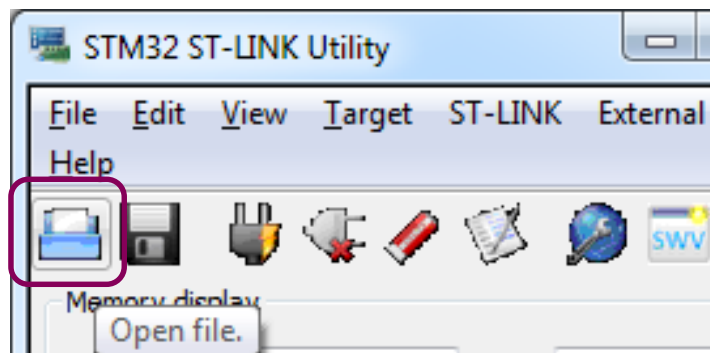


STM32 ST-Link Utility – connecting to target and opening file

- Connecting to target



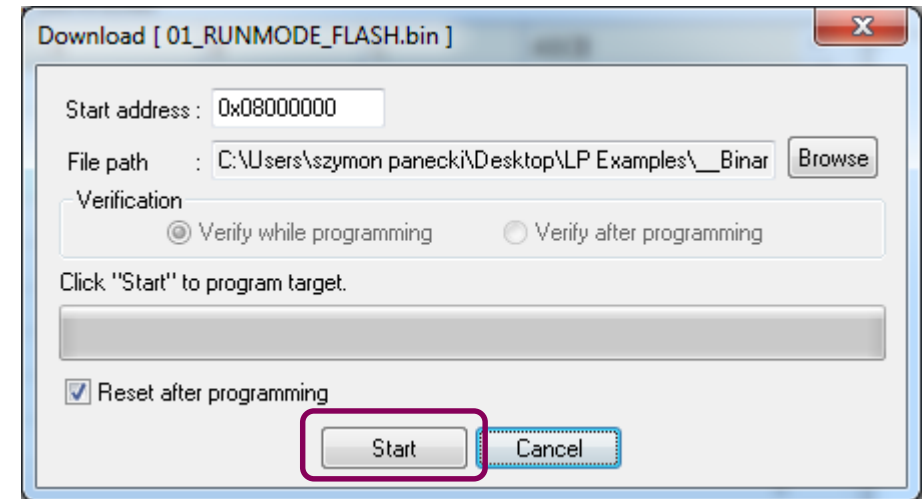
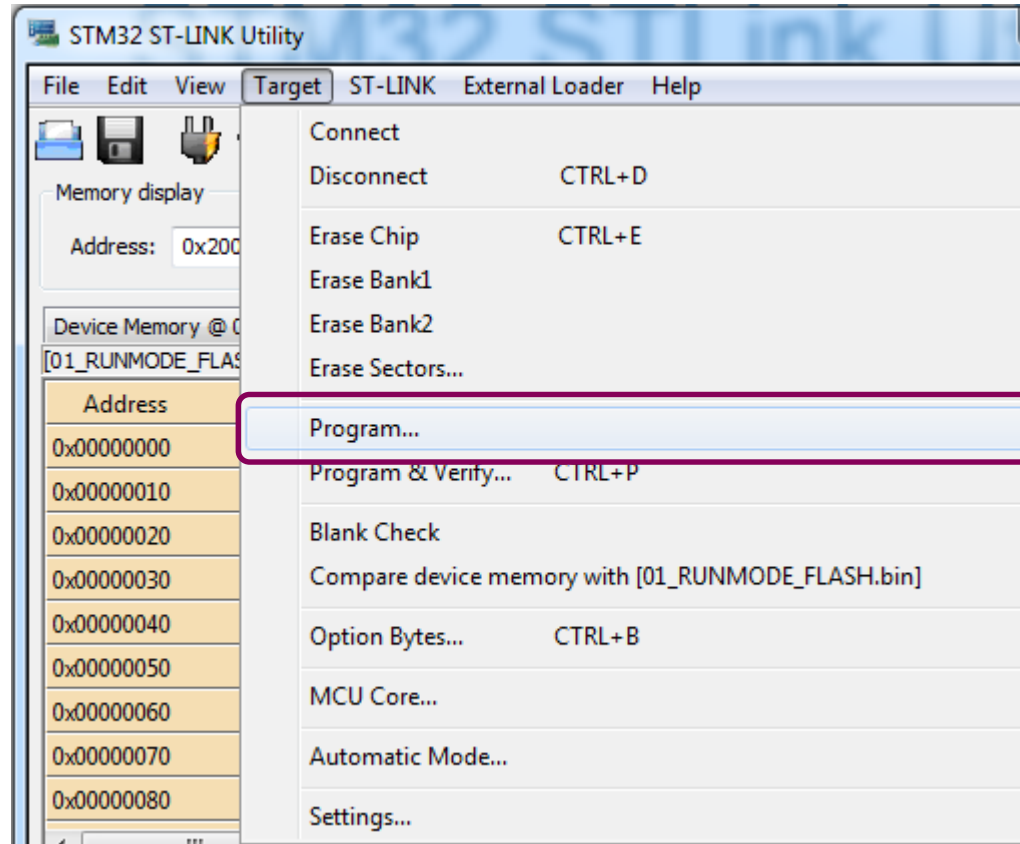
- Opening file

A screenshot of the 'Device Memory' window in the STM32 ST-Link Utility. The window title is 'Device Memory @ 0x20000000 : File : 01_RUNMODE_FLASH.bin'. Below the title, it says '[01_RUNMODE_FLASH.bin], File size: 26676 Bytes'. The main area contains a hex dump table with columns for Address, hex values, and ASCII characters. A blue arrow points from the 'Open file' button in the previous image to this window.

Address	0	4	8	C	ASCII
0x00000000	200042D0	08006611	0800662D	08006631	Ð B . . f . . f . . 1 f . .
0x00000010	08006635	08006639	0800663D	00000000	5 f . . 9 f . . = f
0x00000020	00000000	00000000	00000000	08006641 A f . .
0x00000030	08006645	00000000	08006649	080065FD	E f I f . . ý e . .
0x00000040	0800664D	08006651	08006655	08006659	M f . . Q f . . U f . . Y f . .
0x00000050	0800665D	08006661	08006665	08006669] f . . a f . . e f . . i f . .
0x00000060	0800666D	08006671	08006675	08006679	m f . . q f . . u f . . y f . .
0x00000070	0800667D	08006681	08006685	08006689	} f . . f f . . % o f . .
0x00000080	0800668D	08006691	08006695	08006699	f . . ' f . . • f . . ™ f . .

STM32 STLink Utility – loading file to Flash

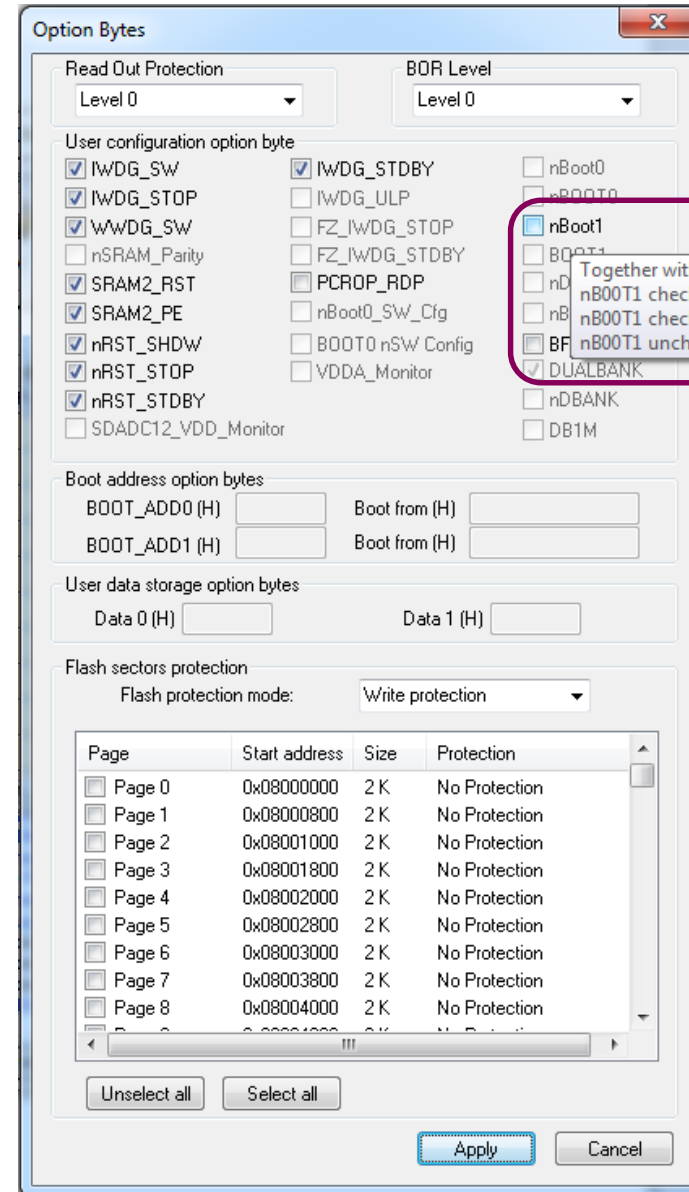
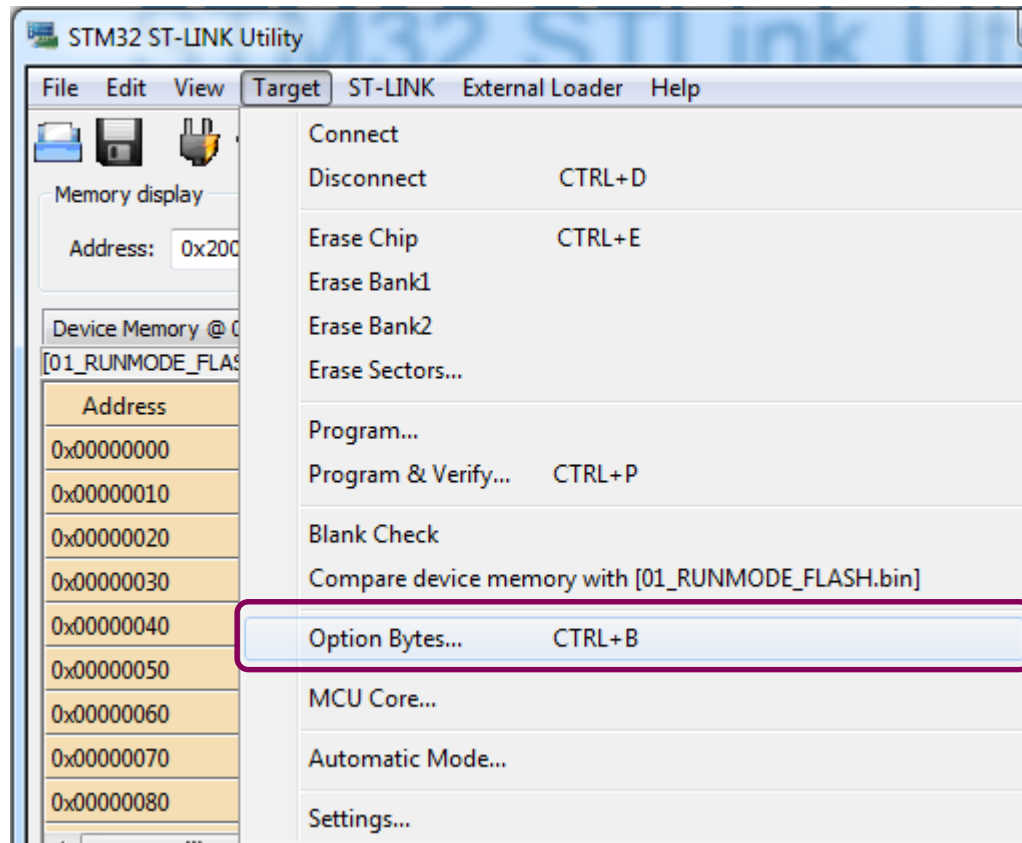
- Configuring the start address



STM32 STLink Utility – loading file to SRAM

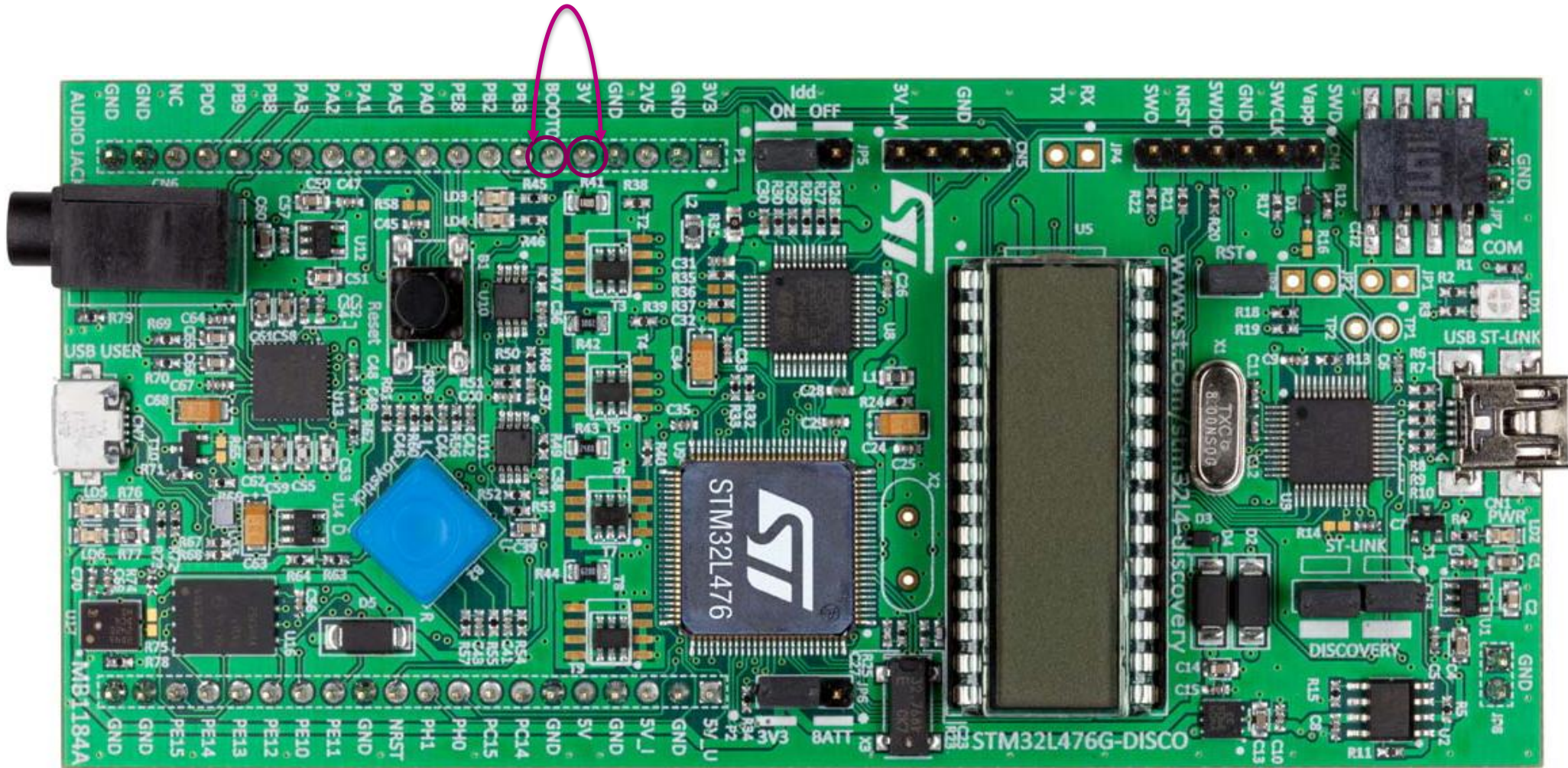
5

1) Unchecking nBoot1



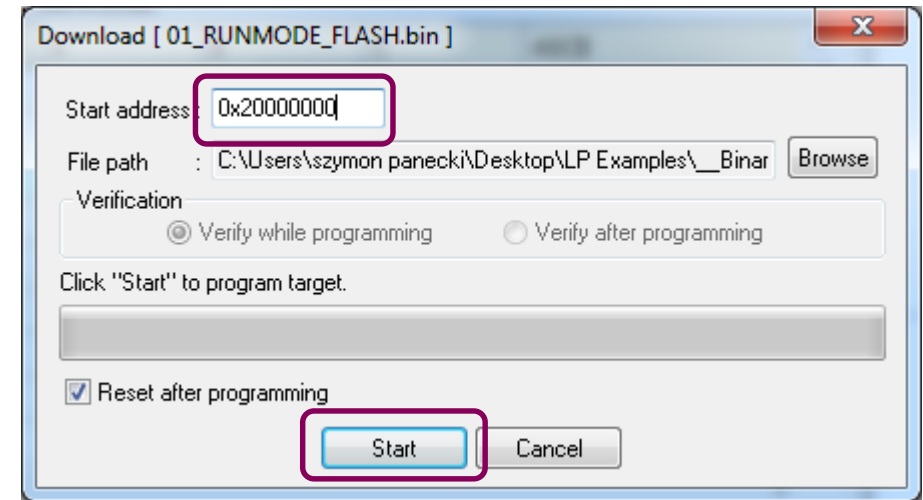
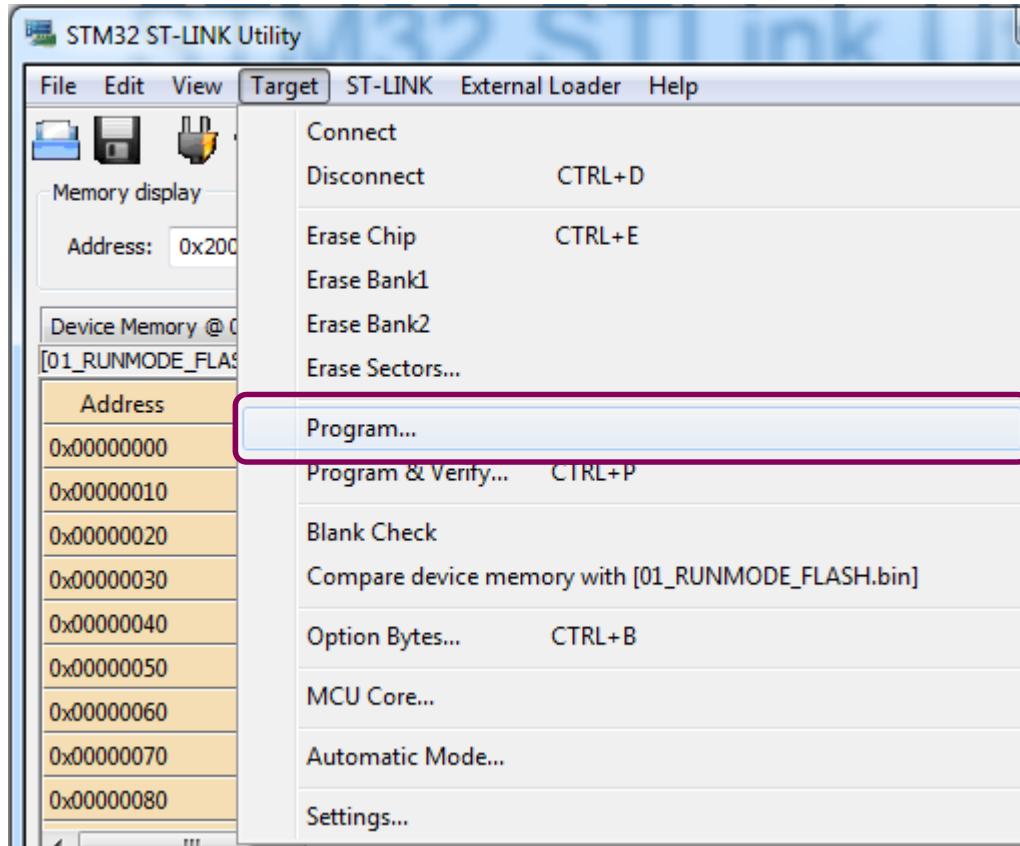
STM32 STLink Utility – loading file to SRAM

2) Connecting Boot0 to VDD



STM32 STLink Utility – loading file to SRAM

3) Configuring the start address



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