	RD-EB01		HT32SX
	Reference Design	17/12/2019	V 1.0

Evaluation Board Firmware Programming

1 INTRODUCTION

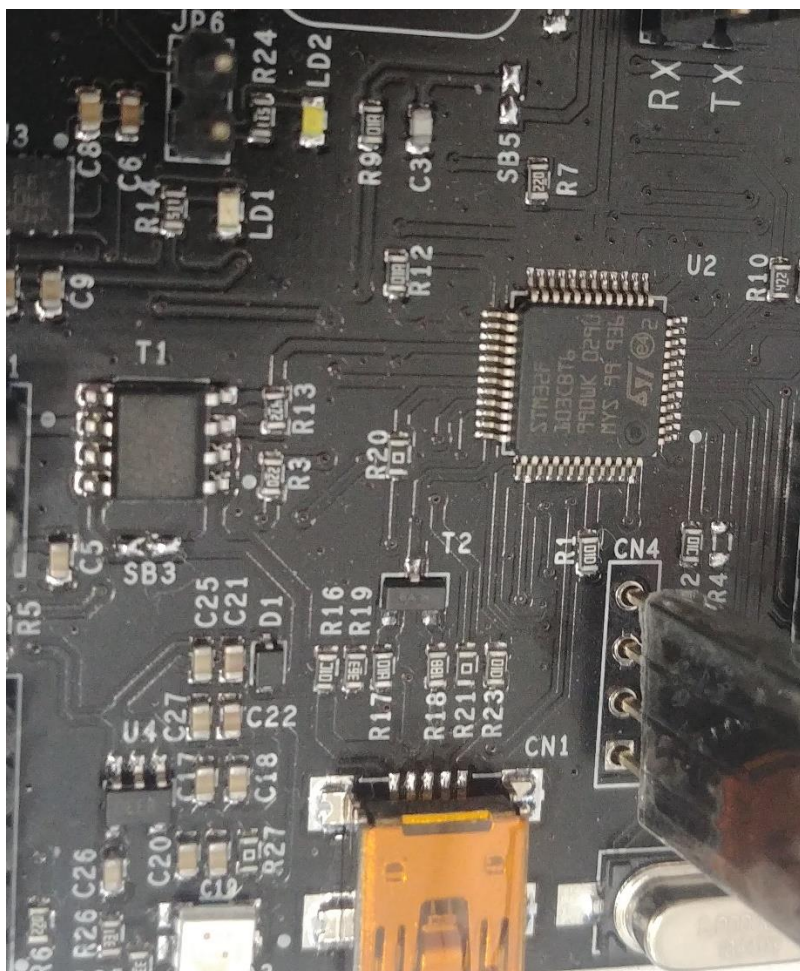
The Evaluation Board was designed to allow users the best experience with the HT32SX and easily to implement new projects. The following instructions are intended to guide developers on how to program the firmware on Evaluation's Board MCU.


1.1 Instructions

For this process the following items are needed:

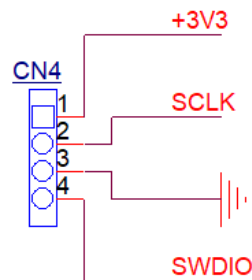
- Another ST-Link programmer device;
- ST-Link software already installed on the computer;
- ST-Link Firmware;
- Arduino cables or male pin headers.

1. Pin headers can be soldered on CN4 connector to ease the process or a group of male Arduino cables can be joined and used to make the contact with CN4 plated holes (picture below);

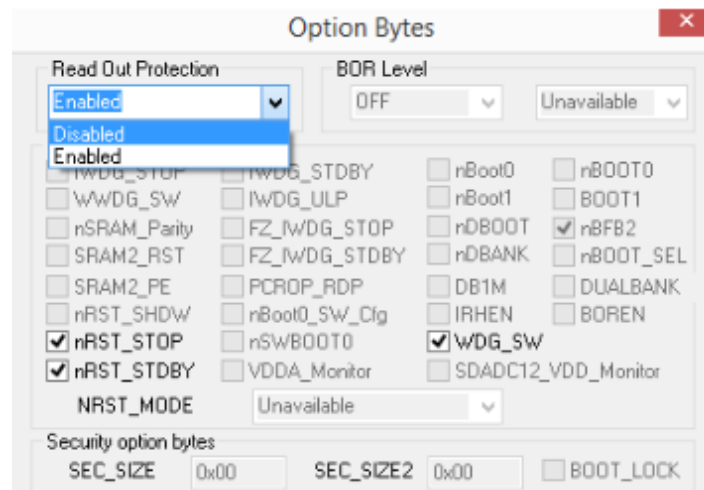


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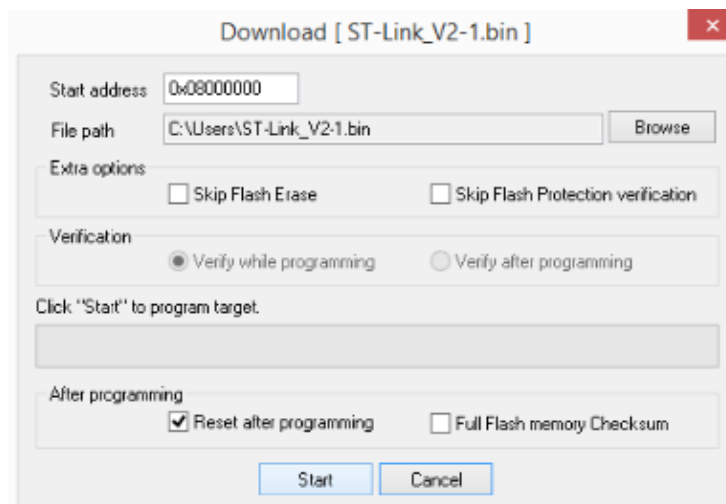
- Make the connections between the programmer and the Evaluation Board as shown in the schematic below;




- Connect the programmer, the one which will be used to flash the Evaluation's Board MCU, on the computer through the USB port;
- Open ST-Link software and go to "Target -> Option Bytes" and choose "Disabled" on "Read Out Protection";

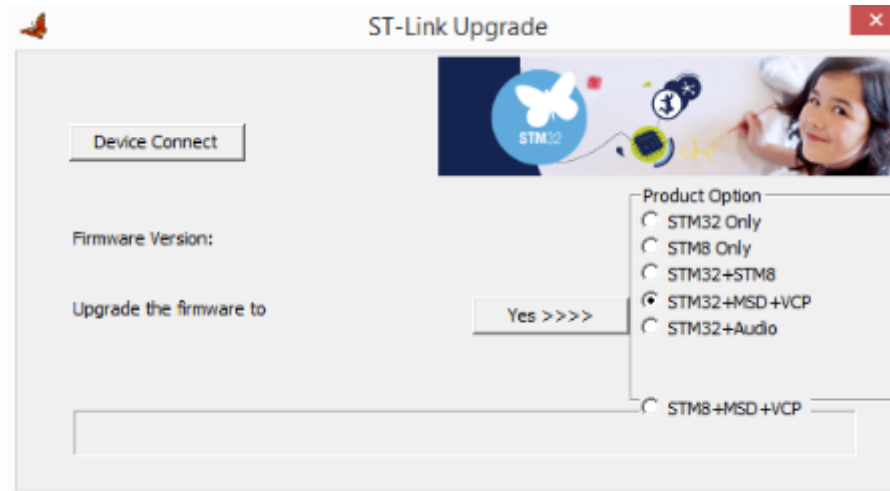


- Open the firmware file "ST-LINK_V2-1", go to "Target -> Program" and click "Start";



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6. After the programming is done remove the cables from CN4 connector and remove the programmer from the USB;
7. Connect the Evaluation Board to the computer through the USB port;
8. On the ST-LINK software go to “ST-LINK -> Firmware update” and click on “Device Connect” button;
9. Choose, on “Product Option”, the option “STM32+MSD+VCP” and then click “Yes” button;



10. After finishing, the message “Upgrade is successful” will be shown;



11. Click in the “OK” button and the process is completed.

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