

USB Insight Hub Flashing/programming guide

Date: 24/04/2025

Ver: 0.1 HW: C0

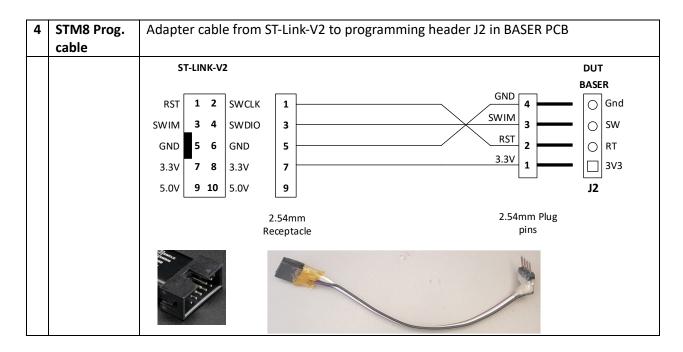
This guide provides instructions to program the STM8S003K3 and ESP32-S3-MINI-N8 modules in the USB Insight Hub hardware.

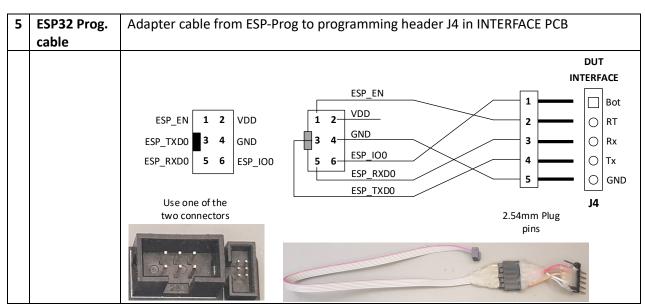
1. Tools required



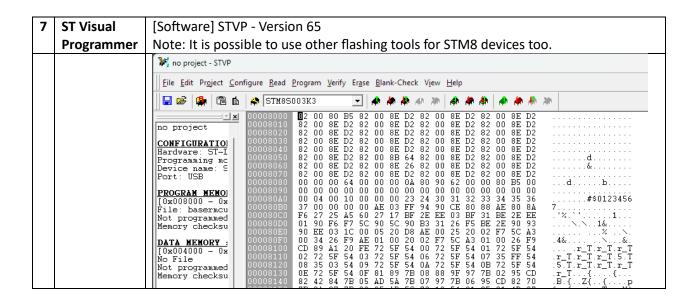


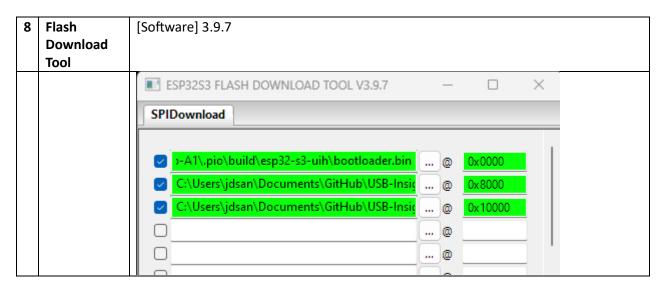






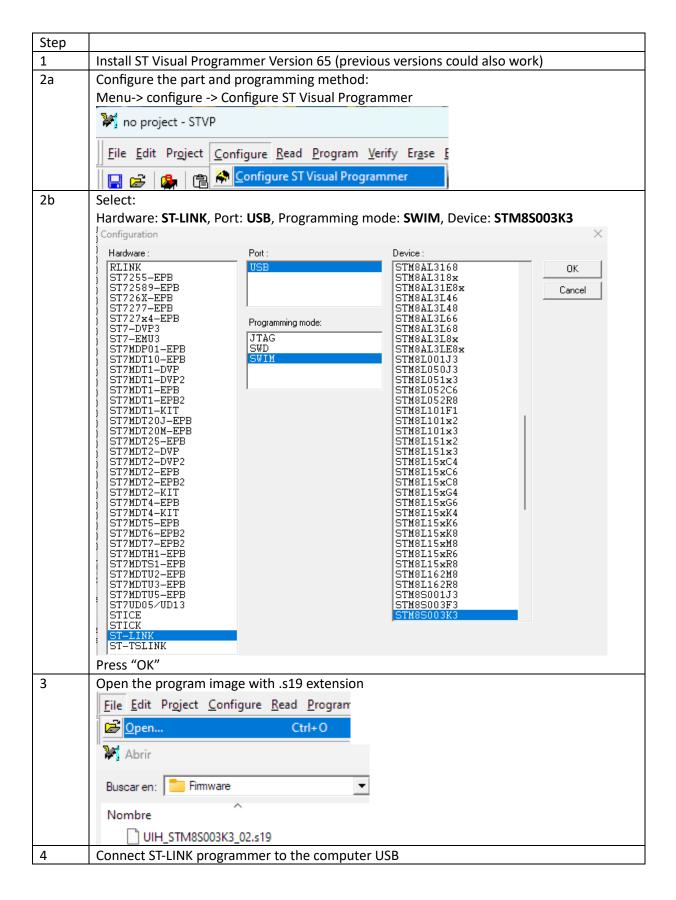
6	Windows PC	Windows 10 or 11 x64 programming and test machine [7] and [8]
		-1x USB A 2.0 or 3.0 port to connect to ST-Link-V2
		-1x USB A 2.0 or 3.0 port to connect to ESP-Prog



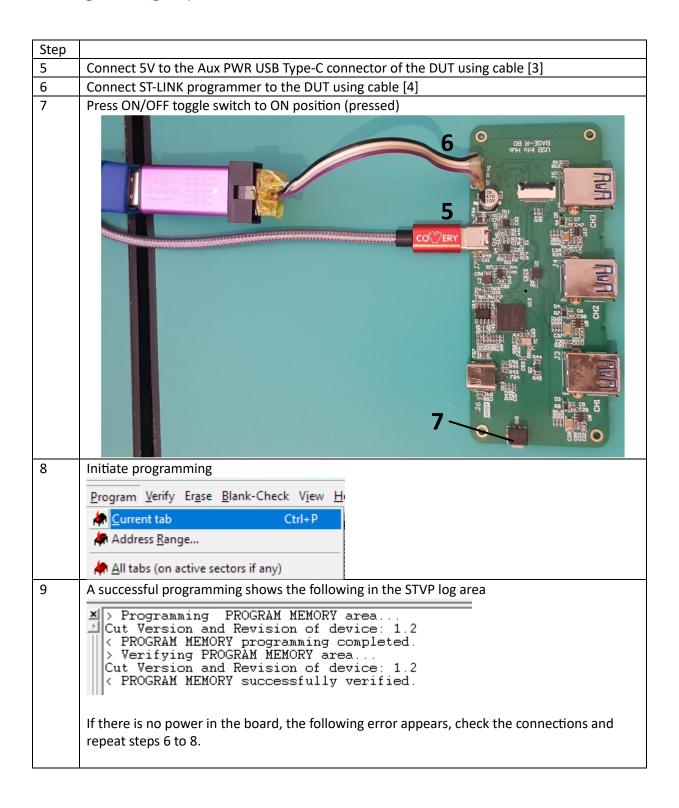


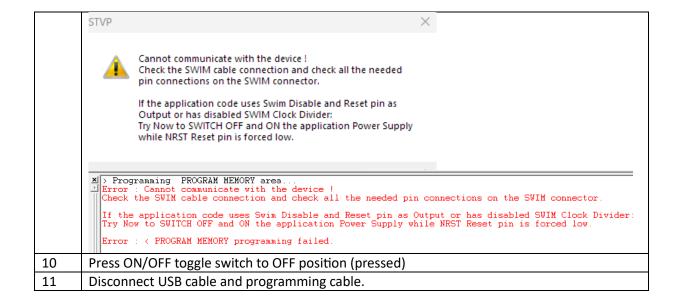
2. STM8S003K3T6 Flashing

2.1 Programming setup



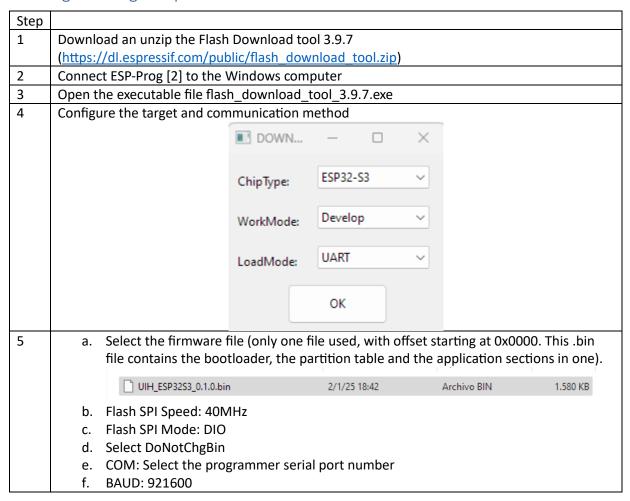
2.2 Programming steps

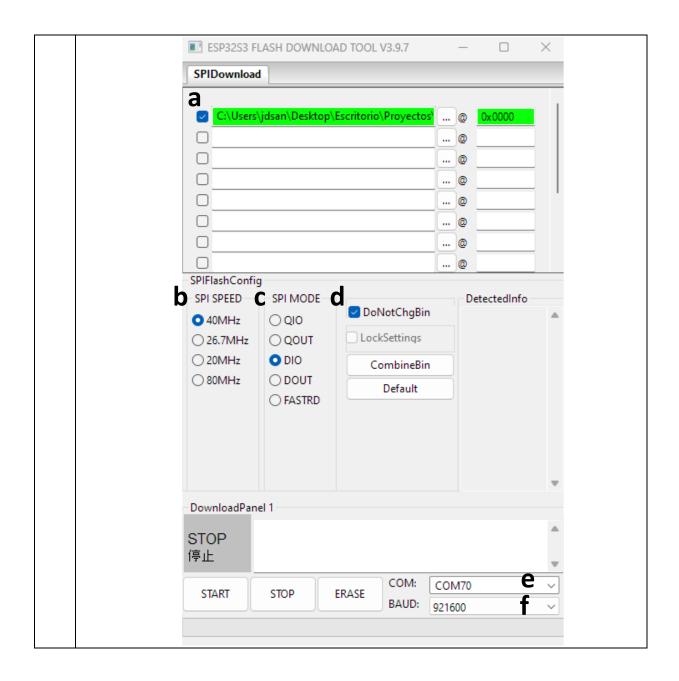




3. ESP32-S3-MINI-1-N8 Flashing

3.1 Programming setup





3.2 Programming steps

6	BASEPCB and INTERFACE PCB must be connected through the board to board flexible flat cable.	
7	Connect 5V to the Aux PWR USB Type-C connector of the DUT using cable [3]	
8	Connect ESP-PROG programmer to the DUT using cable [5] like shown in the picture	
9	Press ON/OFF toggle switch to ON position (pressed)	

