

Data brief

STUSB4531 NVM flasher



Features

- Command-line utility
- Environment set-up:
 - NUCLEO-F072RB or NUCLEO-C071RB: STM32 Nucleo-64 development boards with STM32F072 / C071 respectively
 - STSW-STUSB020: STUSB4531 graphical user interface

Description

The STSW-STUSB021 is a command-line tool dedicated to loading or reading the STUSB4531 configuration, which is stored into the IC non-volatile memory (NVM).

A graphical user interface (GUI) is used to manually configure STUSB4531 parameters (STSW-STUSB020). It can be used offline. Once the configuration is defined, the non-volatile memory settings can be dumped by the GUI into an output file (NVM_GUI_Data.nvm). This file is then used as an input by the flasher tool, in order to store the NVM configuration in the STUSB4531 IC using the I²C interface. Alternatively, the tool can be used to read an STUSB4531 NVM and store in an output file, which can be then imported into the GUI.

Maturity status link

STSW-STUSB021

Related products	
STUSB4531	USB PD sink controller
EVAL-SCS006V1	Mini dongle
EVAL-SCS007V1	Evaluation board
STSW-STUSB020	GUI



1 NVM flasher utility

Figure 1. CMD_STUSB4531 flasher

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Revision history

Table 1. Document revision history

Date	Revision	Changes
27-Oct-2025	1	Initial release.

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