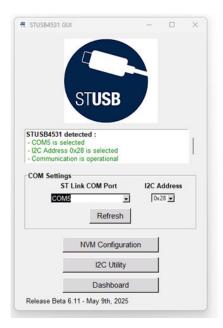


Graphical user interface for STUSB4531



Features

- STUSB4531 non-volatile memory configuration
- USB-C PD dashboard
- I²C utility
- Offline mode

Description

The STSW-STUSB020 is a free graphical user interface (GUI) aimed at customizing the STUSB4531 IC seamlessly through direct access to the Non-volatile Memory (NVM).

The tool allows the user to read, configure and write to the NVM area without specific software skills, thanks to a graphical interface.

The GUI must be used in association with NUCLEO-C071RB or NUCLEO-F072RB boards connected to EVAL-SCS006V1 or EVAL-SCS007V1.

It can also be used in offline mode, i.e. without any connection to the STUSB4531.

Maturity status link STSW-STUSB020

Related products			
STUSB4531			
EVAL-SCS006V1			
EVAL-SCS007V1			
NUCLEO-C071RB			
NUCLEO-F072RB			



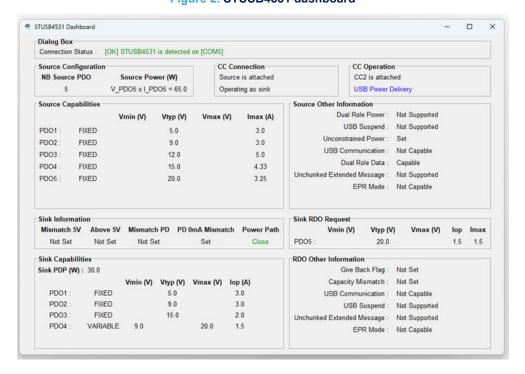


Configuration

M STUSB4531 Device Configuration Dialog Box Connection Status : [OK] STUSB4531 is detected on [COM8] Read device operation complete successfully Power Profile Algo and Vbus Application Specific Interrupt Identification Power Configuration NVM Configuration DEVICE PDP (W): 30 Clamped Current (A) Voltage (V) Import File NB FIXED PDO : 3 ▼ 5.0 3.0 ▼ FIX_PDO1: VSEL VAR (V): 12.0 FIX_PDO2: 9.0 ▼ 3.0 ▼ Export File SINK FEATURE : FIXED+VARIABLE ▼ FIX PDO3 : 15.0 Min Voltage (V) Max Voltage (V) Max Current (A) 9.0 20.0 1.5 APDO FILL: Operational SOURCE DEVICE_PDP 🔻 DEVICE_PDP ▼ DEVICE_PDP ▼ EXPECTED PDP (W): VBUS MONITORING: 0.95 ▼ 1.10 SINK CAPABILITIES content STUSB4531 Access Vmin (V) Vtyp (V) Vmax (V) lop (A) UVLO (V) OVLO (V) Read NVM 2.9 PD01: FIXED 5.0 3.0 5.78 PD02: FIXED 9.0 Write NVM 3.0 6.93 10.4 PDO3: FIXED 15.0 2.0 12.35 17.33 PDO4: VARIABLE 9.0 1.5 6.93

Figure 1. STUSB4531 device configuration

Figure 2. STUSB4531 dashboard



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Revision history

Table 1. Document revision history

Date	Revision	Changes
10-Oct-2025	1	Initial release.
24-Oct-2025	2	Updated related products on the cover page.

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