

Firmware for STEVAL-USBDNGV1 USB dongle available inside the STEVAL-PMIC25V1 for SMBus/I2C bus communication

User Interfaces And utilities	PC Communication STEVAL-USBDNGV1
Applications & demonstrations	HID SMBus
Hardware Abstraction	Hardware Abstraction Layer API
Hardware	STM32F303CCT6
	STEVAL-USBDNGV1 STEVAL-PMIC25V1

Features

SMBus rev 3.1 protocol

- Read Byte/Word/32/Block
- Write Byte/Word/32/Block
- PEC
- 7-bit addressable device

PMBus rev 1.3.1

- Group command
- Zone read protocol
- Zone write protocol

Description

The **STSW-USBDNGFW** firmware implementation is based on the **STM32F303CC** microcontroller, allowing the data bridge communication between graphical user interface running on a PC and PMBUS/I²C based devices such as eFuses family, PMIC25 family and multiphase voltage regulator family.

The firmware has been designed for the STEVAL-USBDNGV1 USB dongle available inside the STEVAL-PMIC25V1 to support PMBus rev 1.3.1 specification (part I and part II), I²C specification except 10bit address management.

Product summary	
Firmware for STEVAL-USBDNGV1 USB dongle for SMBus/I ² C bus communication	STSW-USBDNGFW
Evaluation board for high integration STPMIC25 power management IC for microprocessor units	STEVAL-PMIC25V1
Applications	HID SMBus

Revision history

Table 1. Document revision history

Date	Revision	Changes
20-Jun-2024	1	Initial release.
27-Jun-2024	2	Updated title in cover page, product summary table and Section Description .

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