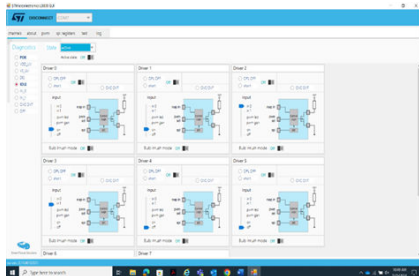## STEVAL-L9800 promotion GUI

Features

- Interfaces with the STEVAL-L9800 evaluation board
- Allows you to connect the STEVAL-L9800 evaluation board via USB type A to minitype B cable
- The channel interface allows the turn on each channel (up to 8) and choose how to drive (by SPI, PWM or IN0/IN1 inputs) each channel
- HS/LS channels can be set
- The GUI allows to diagnostic in ON/OFF state, change device state and set for BIM mode
- The log interface gives information about each channel type of drive, state, and channel number
- The PWM interface allows you to set PWM parameters when a PWM drive is used
- SPI registers interface allow you to set the required registers for all device features
- The test interface allows you to run device functionalities in an automatic way by running a program script

Description

The STSW-L9800GUI shows the main device functionality where it is possible to drive each channel by SPI/PWM or IN0/IN1 inputs.

This can be done by using a very straight forward interface at the channels interface or run function script at the test interface.

Set for diagnostic in the ON/OFF state is possible. BIM mode can be set to show how the device performs in case of an overcurrent occurred.

The same functionalities can be shown using the registers interface and doing the appropriate setting for the required functionalities.

When one of the PWM drive (PWM generators/PWM LED) is using PWM interface can be used to set one of the PWM parameters (duty cycle, frequency and frequency adjustment).

The microboard is already programmed and PLS drivers serial-jtag needs to be installed.

Product summary	
STEVAL-L9800 promotion GUI	STSW-L9800GUI
L9800 multichannel driver evaluation board	STEVAL-L9800
Applications	Body control module (BCM)
	HVAC and climate control
	Power domain control (PDC)

DB5334 - Rev 1 - March 2025
For further information, contact your local STMicroelectronics sales office.

www.st.com

1   Minimum system requirements

- STEVAL-L9800 evaluation board
- USB cable type A to type B mini USB (for further details you can refer to the STEVAL-L9800 user manual)
- PC with window 7.0 or higher with the following software installed:
    - Microsoft .NET framework 4.6.1
    - Microsoft Office Web Component (OWC) version 11
    - Microsoft Excel 2016 or above installed
    - Folder zip file(**PLS driver serial JTAG**) is provided with drivers to be installed

Revision history

Table 1. Document revision history

Date	Revision	Changes
24-Mar-2025	1	Initial release.

IMPORTANT NOTICE – READ CAREFULLY

STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgment.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. For additional information about ST trademarks, refer to www.st.com/trademarks. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.