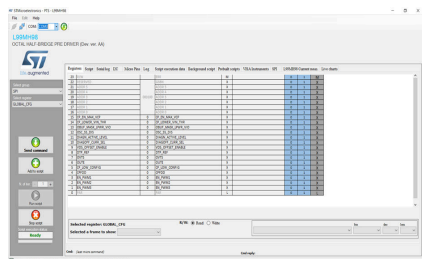![ST logo]

STSW-GUIL99MH98

Data brief

L99MH98 GUI

Features

- Interact with the STEVAL-L99MH98 board to promote the L99MH98 device
- The SPI registers interface allows the setting of the required registers for all device features
- The script interface allows the use of a script file to run various device features simultaneously and automatically without the need to interact with the registers interface
- The micropins interface allows the setting of the uC interface signal to L99MH98, such as PWM, EN
- The L99MH98 current measurement interface allows the calibration and testing of the innovative indirect current sense measurement method

Description

The STSW-GUIL99MH98 is a tool that allows to exploit the functionalities of STEVAL-L99MH98, especially to drive external half-bridges.

Within the GUI, there are two main interfaces: micropins and current measurement.

In micropins mode there is the enable signal, to activate the device, and the three PWM signals used to drive external MOSFETs.

Using the tool, you can configure the registers of individual MOSFETs. You can choose whether to use the high-side or low-side of the half-bridge, whether to drive it via a PWM signal or set it to full-on mode. You can select the turn-on and turn-off currents, and set diagnostics.

The current measurement allows to exploit the innovative indirect current sense measurement method. After appropriately setting the necessary registers and through a calibration and testing phase, it is possible to obtain a measurement of the current flowing through the motor.

Product summary

Product summary	
L99MH98 GUI	STSW-GUIL99MH98
L99MH98 configurable octal half-bridge pre-driver board	STEVAL-L99MH98
Octal half-bridge pre-driver	L99MH98-TR
Applications	Seat control
	Steering column adjustment, gas pedal adjustment
	Sunroof, sliding doors, window lift, seat-belt pre-tensioners, cargo cover, washer pump

DB5461 - Rev 1 - February 2025
For further information, contact your local STMicroelectronics sales office.

www.st.com

1 Minimum system requirements

- STEVAL-L99MH98 board
- USB cable type A to type B mini-USB
- PC with window 7.0 or higher with:
    – Microsoft .NET framework 4.6.1.
    – Microsoft Office Web Component (OWC) version 11
    – Microsoft Excel 2016 or above
- Folder zip file (PLS driver serial-jtag is provided with drivers to be installed

Revision history

Table 1. Document revision history

Date	Revision	Changes
25-Feb-2025	1	Initial release.

IMPORTANT NOTICE – READ CAREFULLY