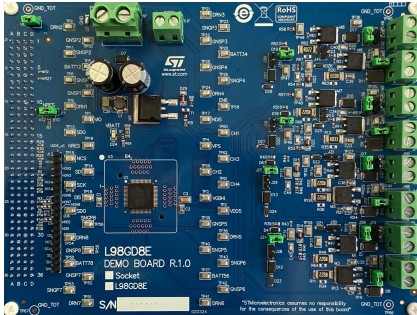


Evaluation board for L98GD8E



Features

- Voltage min/max: 3.8 V to 60 V.
- 8-channel configurable MOSFET predriver:
 - High-side (N-channel and P-channel MOS)
 - Low-side (N-channel MOS)
 - H-bridge (up to 2 H-bridge)
 - Peak & Hold (2 loads)
- Device registers setting and the full diagnostic are available through SPI.
- Access to all relevant pins by test points.
- Input signal connector compatible with the [SPC56M-DIS](#) (SPC563M64L5 Discovery+ evaluation board).
- Possibility of connecting a generic microcontroller board by using a simple adapter.

Product status link

[EVL-L98GD8E](#)

Product summary

Order code	EVL-L98GD8E

Description

The [EVL-L98GD8E](#) is an evaluation board designed to evaluate [L98GD8E](#), a 48 V rated smart power device designed by STMicroelectronics in advanced BCD technology.

[L98GD8E](#) is a flexible high-side/low-side configurable predriver which is able to drive both NMOS and PMOS. It is possible to configure the device as an independent 8 high-side and low-side predriver or as 2 H-Bridge predriver or 2 pick and hold predriver by using SPI configuration and jumper on the board.

All channels are protected against short circuit, over current and overtemperature conditions.

The board can be connected to the [SPC56M-DIS](#), the Discovery+ board developed for the [SPC563M64L5](#).

1 System requirements, HW and SW resources

1.1 System requirements

- Power supply: 4 V ± 60 V; up to 30 A
- SPC56 discovery board or microcontroller board is able to offer:
 - SPI signals
 - 12 GPIO to drive injector and ignition and to monitor status channels and enable pin
 - +5 V or 3.3 V (V_{CC})

1.2 Development toolchain

- LabVIEW and UDE visual platform
- USB – RS232 cable

1.3 Demonstration software

The companion software [STSW-L98GD8E](#) includes both a GUI allowing the full control of the [EVL-L98GD8E](#) and an example script for a first evaluation.

For more information and download refer to www.st.com.

Revision history

Table 1. Document revision history

Date	Revision	Changes
20-May-2026	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.

In the event of any conflict between the provisions of this document and the provisions of any contractual arrangement in force between the purchasers and ST, the provisions of such contractual arrangement shall prevail.

The 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.

The 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 the 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.

If the purchasers identify an ST product that meets their functional and performance requirements but that is not designated for the purchasers’ market segment, the purchasers shall contact ST for more information.

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.

© 2026 STMicroelectronics – All rights reserved