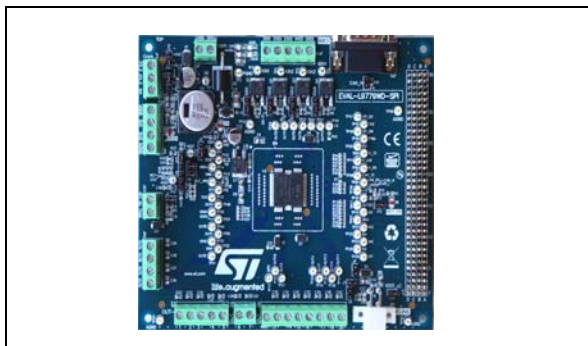




Features

- Voltage min/max: 4.15V to 28V.
- No. channels:
 - 4 injector driver
 - 1 canister valve driver
 - 2 Lambda sensor heater
 - 1 Main relay driver
 - 6 relay driver
 - 1 LED driver
 - 4 Ignition driver
- A programmable power stage configurable as double H-bridge to drive a stepper motor driver, or as independent 4 High side and 4 Low side drivers.
- Device registers setting and the full diagnostic are available through SPI.
- Communication protocols: SPI, CAN, (both with dedicated connectors), Kline.
- Access to all relevant pins by test points. Input signal connector compatible with the SPC56M-Discovery
- Possibility to connect a generic microcontroller boards by using a simple adapter.
- Package: HIQUAD-64.

Description

The EVAL-L9779WD-SPI is an Evaluation Board designed to evaluate L9779WD-SPI, a smart power device designed by STMicroelectronics in advanced BCD6s technology.

L9779WD-SPI is able to drive all the relevant loads used in powertrain applications (Injectors, Ignitions, Relay, etc.), to interface with Variable Reluctance Sensors and Hall sensors, to monitor diagnostic functionalities and to interact with the main networks present in powertrain environment (CAN, K-Line).

All channels are protected against short circuit and over-temperature condition.

The board can be connected to the SPC56M-Discovery, the Discovery+ board developed for the SPC563M64L.

Table 1. Device summary

Order codes	Reference
EVAL-L9779WD-SPI	EVAL-L9779WD-SPI Evaluation board

1 System requirements

- Power Supply: 4 V ÷ 40 V; up to 30 A
- SPC56 discovery board or microcontroller board able to offer:
 - a) SPI signals
 - b) 13 GPIO in order to drive injector ,ignition and to monitor device status pin.
 - c) 1 PWM signal to control the stepper motor driver
 - d) +5 V or 3,3 V (V_{CC})

1.1 Development toolchain

- Labview and UDE VISUAL PLATFORM

1.2 Demonstration software

Software is available for demonstration purpose. For more information and download, please refer to ST web.

2 Revision history

Table 2. Document revision history

Date	Revision	Changes
16-Dec-2015	1	Initial release.
08-Mar-2016	2	Aligned RPN with EVAL-L9779WD-SPI.
14-Mar-2018	3	Updated board and replaced text SPC563M-DISP in SPC56M-Discovery

IMPORTANT NOTICE – PLEASE 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 acknowledgement.

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. 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.

© 2018 STMicroelectronics – All rights reserved

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9