



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.

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.

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



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.