

## Firmware for STEVAL-LLL014V1 evaluation kit for ALED7709 configuration

User interfaces and utilities	PC communication bridge	
Applications and demonstrations	VCP-I2C bridge	PWMI / FSW pins pulse generator
	Hardware Abstraction Layer API	
Hardware	SPC582B60E1	ALED7709
	STEVAL-LLL014V1	

### Features

- Running on SPC582B60 MCU
- I<sup>2</sup>C bridge between ALED7709 and the PC SW
- SW controlled PWM generator for PWMI and FSW pins

### Description

The **STSW-LLL014FW** firmware implementation is based on the 32-bit **SPC582B60E1** microcontroller, allowing the configuration and control of the **ALED7709** LED drivers over the I2C interface.

The firmware has been designed for the **STEVAL-LLL014V1** evaluation kit to demonstrate the **ALED7709** features as controller for lighting and backlighting.

The **STSW-LLL014FW** implements the bridge feature between the **ALED7709** device and the **STSW-LLL014GUI** SW, running on a PC.

Product summary	
Software for STEVAL-LLL014V1 evaluation kit	<a href="#">STSW-LLL014FW</a>
Automotive LED driver 4-channel evaluation kit based on ALED7709A	<a href="#">STEVAL-LLL014V1</a>
GUI for STEVAL-LLL014V1 evaluation kit	<a href="#">STSW-LLL014GUI</a>
Automotive LED driver 4-channel 200 mA with a DC-DC converter controller	<a href="#">ALED7709ATR</a>
32-bit Power Architecture MCU for Automotive General Purpose Applications - Chorus family	<a href="#">SPC582B60E1MH00Y</a>
Applications	<a href="#">Led Lighting System</a>

## Revision history

**Table 1. Document revision history**

Date	Revision	Changes
19-May-2023	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](http://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.

© 2023 STMicroelectronics – All rights reserved