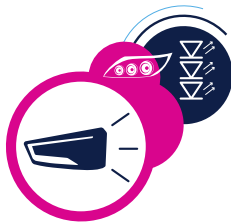


Firmware for the STEVAL-LLL002V1 evaluation kit

User interfaces and utilities	STSW-LLL002GUI		
Demonstrations	Applications		
ALED1262ZT LED Demo	Dimming control	LED driver pre-configured or programmable patterns	Automotive rear lights
Hardware Abstraction	Hardware Abstraction Layer API	Board Support Package	
Hardware	STM8A6266, ALED1262ZT, STEVAL-LLL002D1		
	STEVAL-LLL002V1		



Features

- Various pre-configured LED patterns based on [ALED1262ZT](#)
- Brightness and speed control
- ALED1262ZT LED demo
- [STSW-LLL002GUI](#) graphical user interface with three operating modes:
 - Basic mode, replicating on-board control buttons, to write/read control registers, and with open circuit error detection at different frequencies
 - Advanced mode for individual channel brightness control
 - Frame programming mode with programmable and pre-configured LED patterns
- USB-UART bridge (STEVAL-LLL002D1) for PC-MCU communication
- Source code freely available with developer-friendly license terms

Description

The [STSW-LLL002FW](#) firmware implementation is based on the 8-bit automotive grade [STM8AF6266](#) microcontroller, allowing configuration and control of the [ALED1262ZT](#) LED driver over I²C interface.

The firmware has been designed for the [STEVAL-LLL002V1](#) evaluation kit to demonstrate ALED1262ZT features and is used for application development in automotive rear lights with pattern animations.

The embedded GUI ([STSW-LLL002GUI](#)) allows you to control buttons, write/read configuration registers and individual channel brightness, as well as to program up to 20 LED patterns with variable transition speed or use four preconfigured patterns.

Product summary	
Firmware for the STEVAL-LLL002V1 evaluation kit	STSW-LLL002FW
Evaluation kit for automotive rear lights with pattern animations based on ALED1262ZT and STM8AF6266	STEVAL-LLL002V1
Automotive-grade 12-channel LED driver	ALED1262ZT
FW download method	ST-LINK (SWIM Connector)
Other utilities and applications	STSW-LLL002GUI

1 How to download the firmware

The 8-bit automotive MCU mounted on the STEVAL-LLL002M1 board can be programmed using the tool "ST Visual Programmer STM8 (STVP-STM8)", which is available on www.st.com.

On connecting the ST-LINK/V2 debugger to the STEVAL-LLL002M1 over SWIM interface, the STSW-LLL002FW.hex file can be loaded.

Revision history

Table 1. Document revision history

Date	Version	Changes
03-Jun-2019	1	Initial release.

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