

Firmware for the STEVAL-LLL011V1 evaluation board

User interfaces and utilities	STSW-LED1202GUI	Button interface
Demonstration	Demo scripts from STSW-LED1202GUI	
Hardware Abstraction	STM32Cube	
Hardware	STM32L073	L3GD20H
	LED1202	MP34DT01-M
	STEVAL-LLL011V1	

Features

- Firmware to drive the 12-channel LED1202 LED driver
- Forms a bridge between the LED driver and a PC GUI interface to configure the driver
- Allows custom LED effects written in the GUI with BASIC-like scripts to run on the LED driver
- Standalone mode support with direct execution of scripts loaded on the on-board microcontroller

Description

The **STSW-LLL011FW** firmware runs on the **STM32L073** microcontroller embedded on the **STEVAL-LLL011V1** evaluation board.

The firmware forms a bridge that allows read and write access to appropriate configuration and status registers in the **LED1202** 12-channel LED driver with the **STSW-LED1202GUI** graphical interface running on a PC.

The GUI also helps users build LED effects scripts in a language similar to BASIC, which the firmware can run immediately from the GUI, or in Standalone mode using the board button interface after the scripts have been loaded onto the microcontroller.

Product summary	
firmware for STEVAL-LLL011V1 with demonstration examples	STSW-LLL011FW
GUI for evaluation boards based on LED1202 driver	STSW-LED1202GUI
evaluation board for the LED1202 LED driver	STEVAL-LLL011V1
12-channel low quiescent current LED driver	LED1202
ultra-low-power ARM Cortex-M0+ MCU	STM32L073
Applications	Wearable LED Small Displays

Revision history

Table 1. Document revision history

Date	Version	Changes
03-Aug-2020	1	Initial release.

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