

Software for STEVAL-LLL012V1 smart LED driver with high power factor using BLE mesh network for indoor lighting

Applications & demonstrations			
STSW-LLL012FW			
Single Stage High Power Factor LED Driver	BLE Mesh Wireless Networking	Dimming Control	Comprehensive Protection
Hardware Abstraction			
BLUENRG-M2SP Hardware Abstraction Layer API			
Hardware			
HVLED001B	STP10L80K5, TSM1012, TSS561, LF334B, STTH0032	STEVAL-LLL012V1	



Features

- Specifically designed to support smart home LED lighting applications and run on **BLUENRG-M2SP** wireless module
- BLE wireless mesh networking functionality for remote control of multiple nodes
- ON/OFF LED and dimming control capability with the support of **ST BLE Mesh** Android/iOS mobile app
- 1% dimming resolution plus on/off control
- Developer-friendly license terms

Description

The **STSW-LLL012FW** is dedicated to LED lighting control in a smart home scenario based on BLE mesh wireless networking technology using the **STEVAL-LLL012V1** evaluation kit and enabling remote dimming plus on/off control from a single Android or iOS phone device, together with the **ST BLE Mesh** mobile app.

The firmware runs on the **BLUENRG-M2SP** integrated wireless module on the **STEVAL-LLL012V1**, featuring the **HVLED001B** high brightness LED driver.

STSW-LLL012V1FW is available for free download with developer-friendly license terms.

You can use it to test the **BLUENRG-M2SP** connectivity and **HVLED001B** LED power control functionality or to develop your own custom solutions.

Product summary	
Firmware for the STEVAL-LLL012V1 smart LED driver	STSW-LLL012FW
Smart LED driver with high power factor using BLE Mesh network for indoor lighting	STEVAL-LLL012V1
High power factor flyback controller	HVLED001B
STSW-BNRG-Mesh is a software solution for connecting multiple BLE devices in Mesh networks	STSW-BNRG-Mesh
Very low power application processor module for Bluetooth® low energy v5.2	BlueNRG-M2SP
Applications	LED Lighting Smart Home

Revision history

Table 1. Document revision history

Date	Version	Changes
24-Feb-2021	1	Initial release.

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