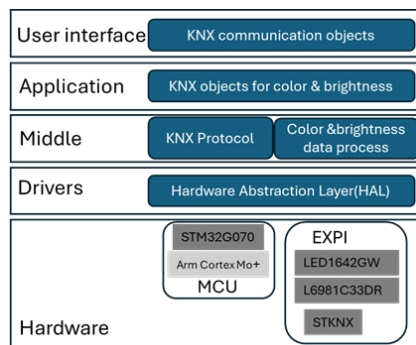




## Software for STDES-KNXRGBDRV



### Features

- Based on the STKNX miniature transceiver
- Controlled by STM32G070CB microcontroller 32-bit Cortex®-M0+ MCU with 64 MHz - 128 KB flash
- Integrated LED1642GW to drive 5 RGB lights
- 5 onboard RGB lights are powered by STKNX
- Standard serial wire debug (SWD)
- 1 button and 1 LED for KNX programming
- ETS database is available
- Compatible with ETS5 and ETS6

### Description

Product summary	
Software for STDES-KNXRGBDRV	STSW-KNXRGBDRV
Miniature KNX transceiver with voltage regulators	STKNX
16 Channels LED driver with Error detection, Current Gain Control and 12/16 bit PWM Brightness control	LED1642GWPTR
Applications	Home automation Residential climate control and HVAC Lighting controls

The **STSW-KNXRGBDRV** is the firmware running in the **STKNX** RGB driver board for controlling the RGB LED lights color and brightness.

This software integrates ST third-party KNX stack, a series KNX API were used for realizing KNX functions.

A driver firmware for working with **LED1642GW** is included.

An ETS database is available, through ETS configuration, the color and brightness of five on-board RGB lights can be controlled via other **STKNX** devices.

An SWD interface and a UART interface on the board for programming and debugging are also available.

More communication objectives can be added with software modification.

## Revision history

Table 1. Document revision history

Date	Revision	Changes
23-Sep-2025	1	Initial release.

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