



Home & Building Automation STKNX

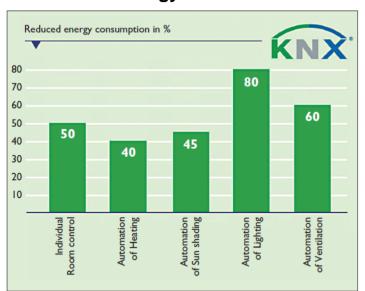




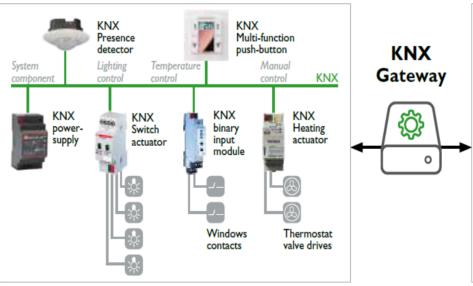
KNX advantage

Low power consumption and compatible with IT systems

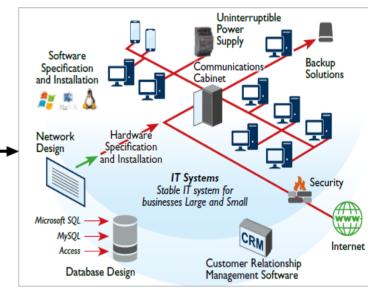
* KNX Energy Reduction



KNX Network



IT Systems



*Data Source: www.knx.org < KNX-Basics en.pdf>





STKNX total solution



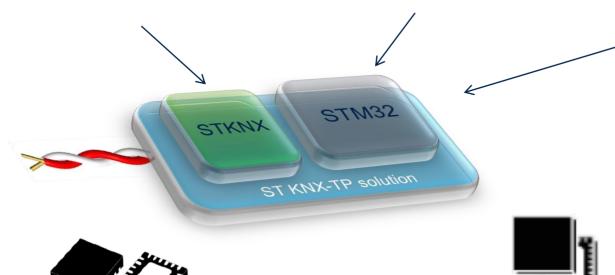
4*4*1mm, 0.5mm Pitch



UFQFPN32

 $5 \times 5 \text{ mm}$





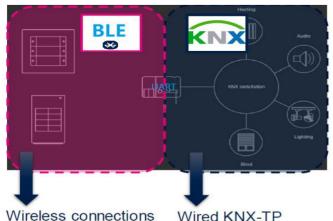
- STKNX third party partners
- Provide KNX protocol stack development support
- KNX product certification test





A KNX-TP and BLE integration system for remote lighting control Via mobile APP





The system includes three parts:

- Mobile App is designed to switch on/off of the light and adjust its brightness and color via dimmer function. App can also display the value from the onboard temperature and humidity sensor.
- BLE device is a BlueNRG-2 evaluation board (STEVAL-IDB008V2). The BLE device receives commands from APP, and then send them to STKNX sensor board via UART port. Through the BLE device, KNX TP was extended to a wireless system.
- KNX TP system is a small KNX system consists of KNX power, KNX sensor and on/off dimmer KNX actuator. Besides lighting control system, it can also be extended to demonstrate other KNX building systems such as HVAC, Blind &Shutters etc.









A KNX-TP and BLE integration system for remote lighting control Via mobile APP



Features

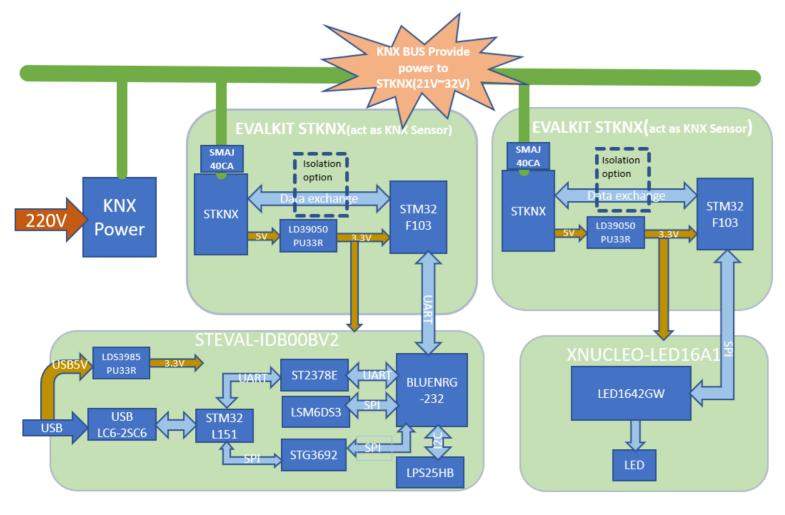
- On/off Light control via mobile app and button.
- Dimmer lighting brightness and color adjust via mobile app.
- Environment temperature measure and display.
- Able to Integrate with other KNX equipment and system.
- Associated demo kit SW package includes four firmware for additional function extension.

Application

- · Lighting control system.
- HVAC control system
- Blinds &Shutters control
- Switch on/off control
- Intelligent wireless home control system



BLUEKNX demo kit Block Diagram



Product List

- STKNX
- STM32F103
- SMAJ40CA
- STM32L151
- BlueNRG-232
- LD1117S50TR
- LD39050PU33R
- LDS3985PU33R
- LED1642GW
- LSM6DS3
- LPS25HB
- USBLC6-2SC6
- ST2378E
- STG3692

Used Demo Board List

- EVALKITSTKNX
- STVAL-IDB00BV2
- XNUCLEO-LED16A1
- TAPKO-IPS640
- TAPKO UIM-KNX 42
- MDT AKK-0216.03





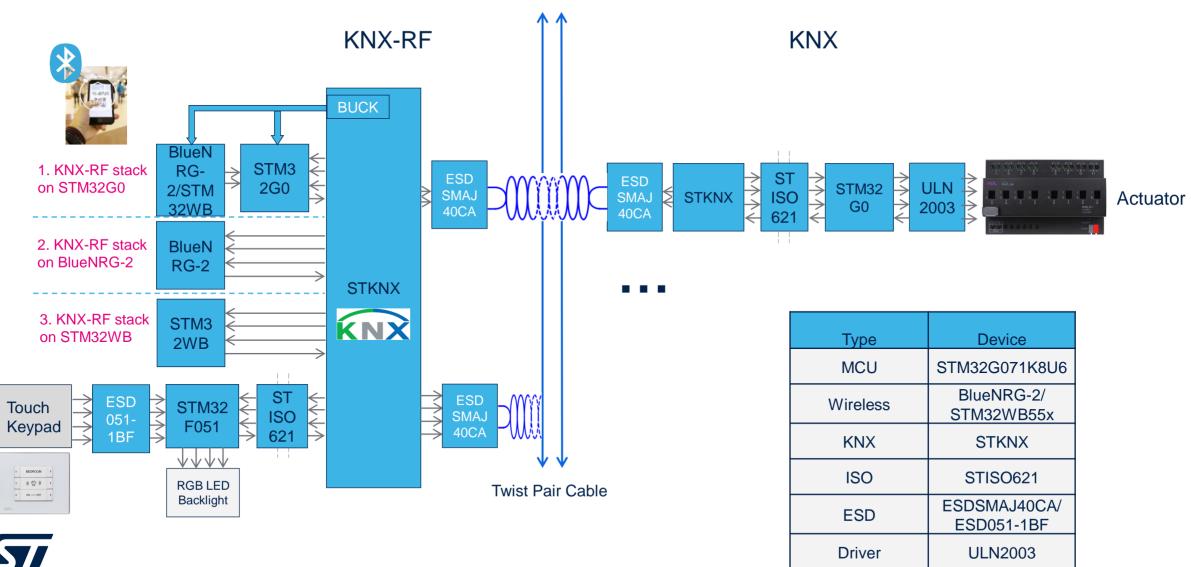
life.augmented



*Contact TM for Device Details

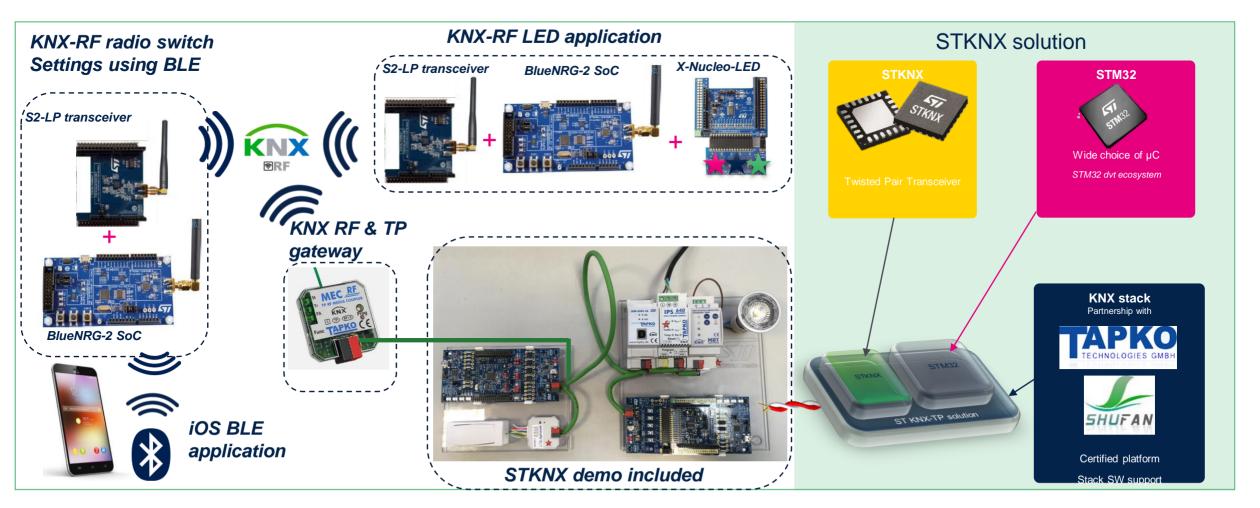


KNX-RF block diagram





KNX ecosystem demo setup proposal







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