life.augmented

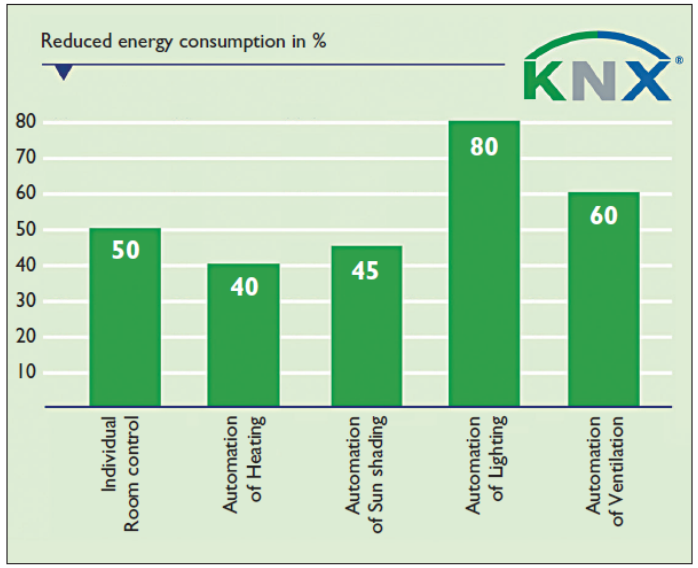
家庭 & 楼宇自动化
STKNX

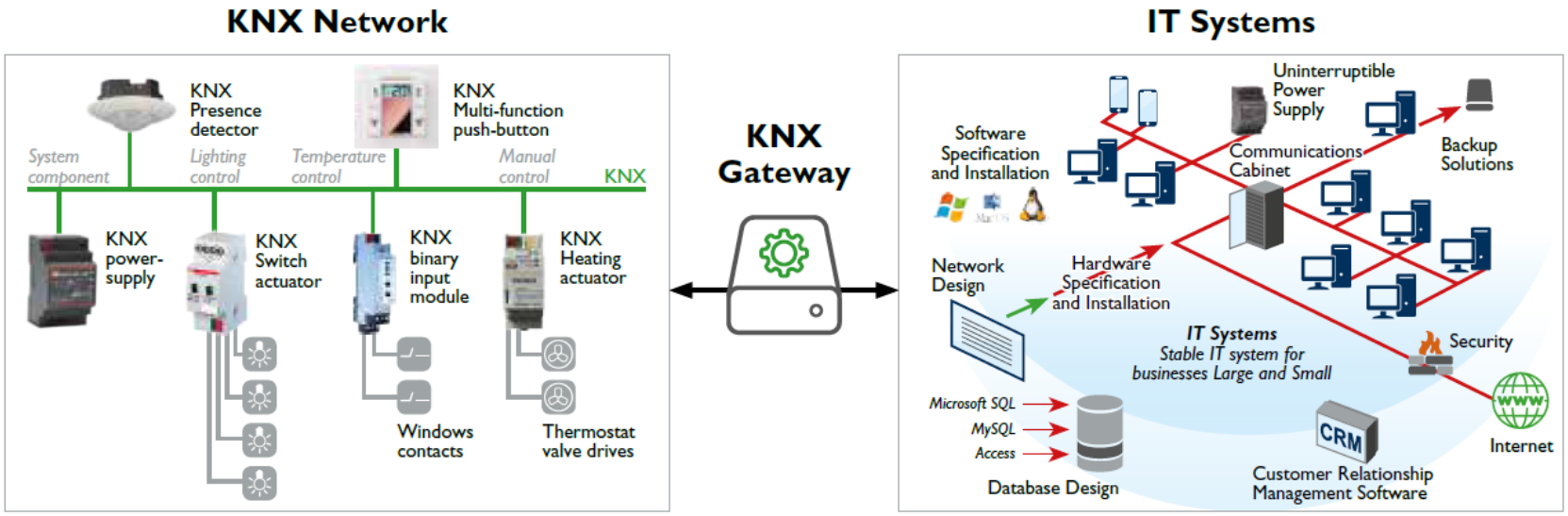
Industrial Automation
Competence Center

KNX 优势

低功耗，与IT系统兼容

*** KNX Energy Reduction**





*数据: www.knx.org < KNX-Basics_en.pdf>

life.augmented

STKNX 整体方案

STKNX

Twisted Pair Transceiver

Certification March 2017

STM32

Wide choice of µController

STM32 dvt ecosystem

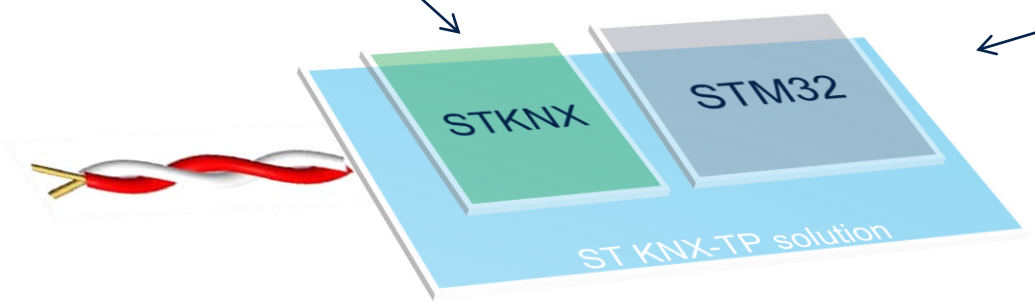
KNX Stack

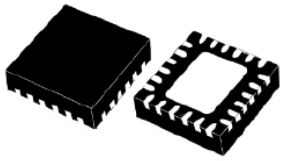
TAPKO TECHNOLOGIES GMBH

Shufan

Partnership with

Software Stack Support





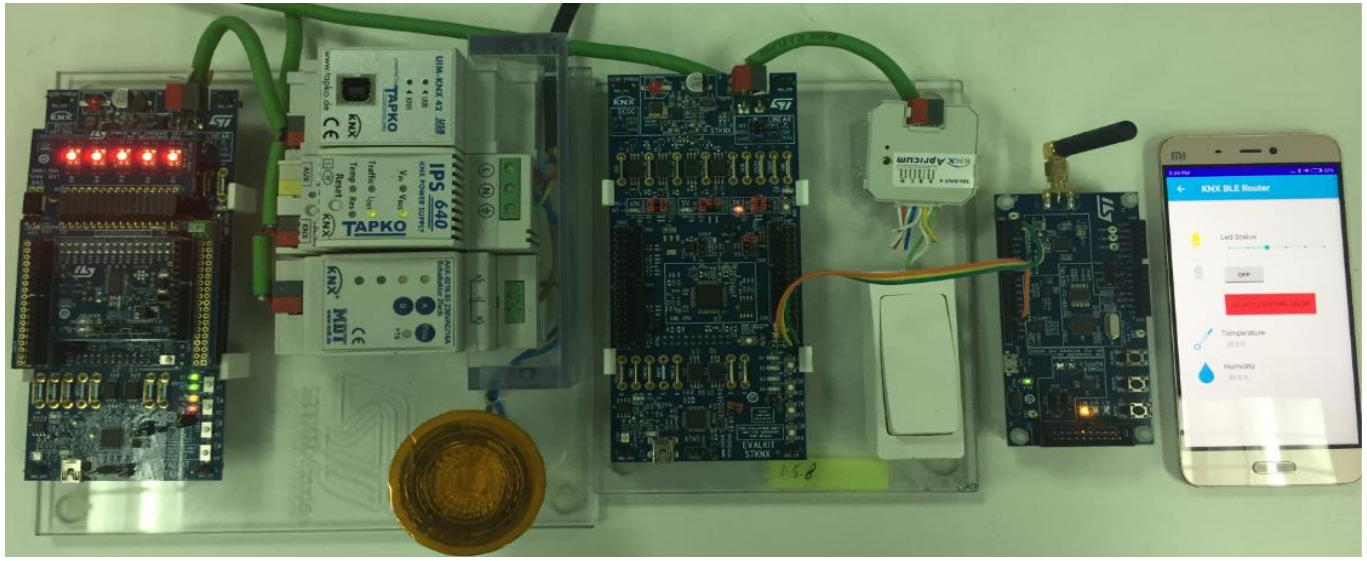
4*4*1mm, 0.5mm Pitch

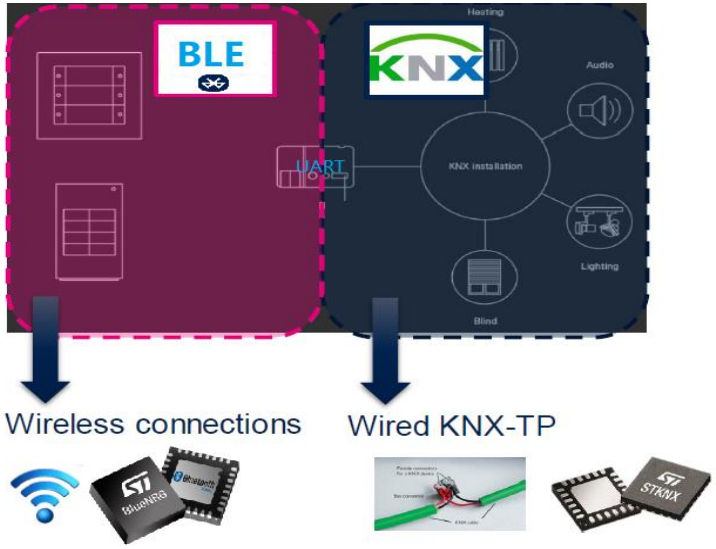
UFQFPN32
5 × 5 mm

- STKNX 第三方合作伙伴
- 提供KNX协议栈开发支持
- KNX产品认证测试

life.augmented

全新KNX-TP和BLE集成系统
通过移动应用进行远程照明控制

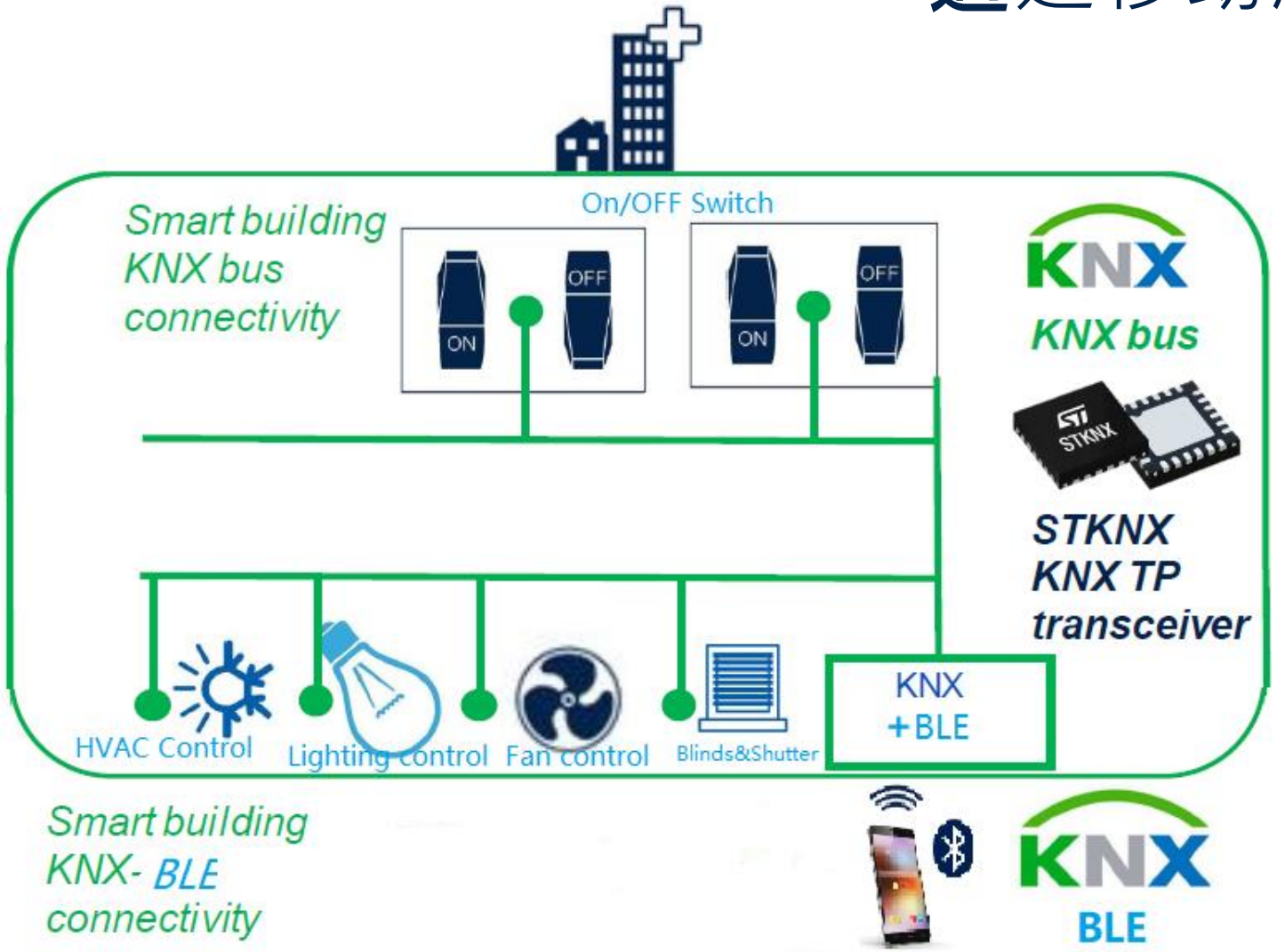




系统三大部分:

- **移**动应用程序用于打开/**关**闭灯光，并通过调光**功能**调整亮度和颜色。App还可以显示温度和**湿度**传感器的值
- BLE设备是通过BlueNRG-2评估板（STEVAL-IDB008V2）**来**实现。BLE设备接收来自APP**的命令**，**然后通**过UART**端口**发送给STKNX传感**器板**。**通**过BLE设备，KNX-TP扩展到无线系统
- KNX TP**系**统是一个小型KNX**系**统，由KNX电源、KNX传感器和开关调光器KNX执行器组成。除**了照明控制系**统外，它还可以扩展到其他KNX**建筑系**统，如HVAC、**百叶窗和百叶窗等**。

全新KNX-TP和BLE集成系统
通过移动应用进行远程照明控制



主要特点

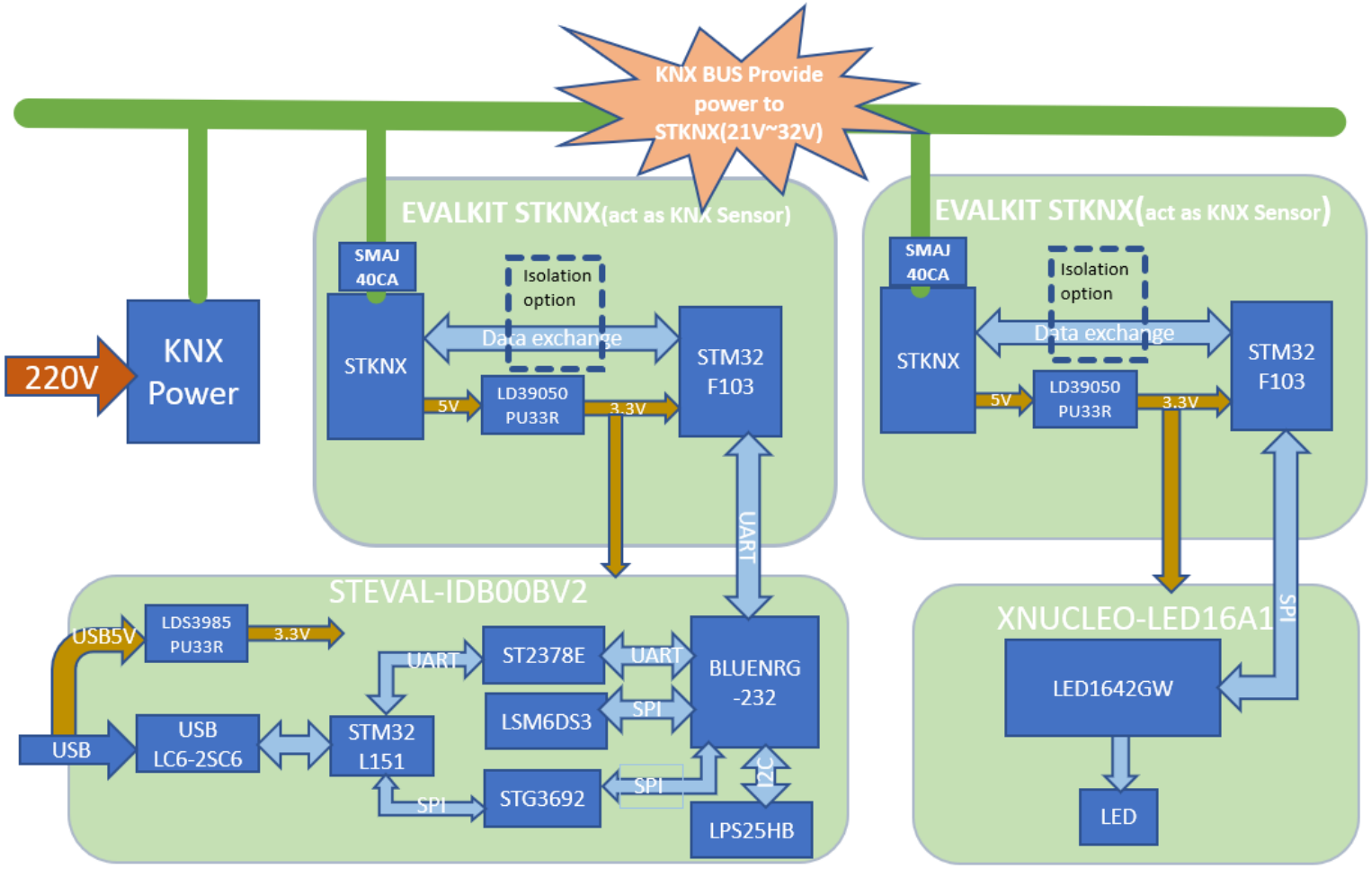
- **通**过移动应用程序和按钮控制开/**关灯**
- **通**过移动应用程序调节调光亮度和颜色
- 环境温度测量及显示
- **能**够与其他KNX设备和系统集成
- **相关的演示套件**软件包包括四个固件，**用于附加功能**扩展

主要应用

- **照明控制系**统
- **暖通空**调控制系统
- **百叶窗和百叶窗控制**
- **开关控制**
- **智能无**线家庭控制系统

life.augmented

BLUEKNX演示板套件框图



相关产品料号

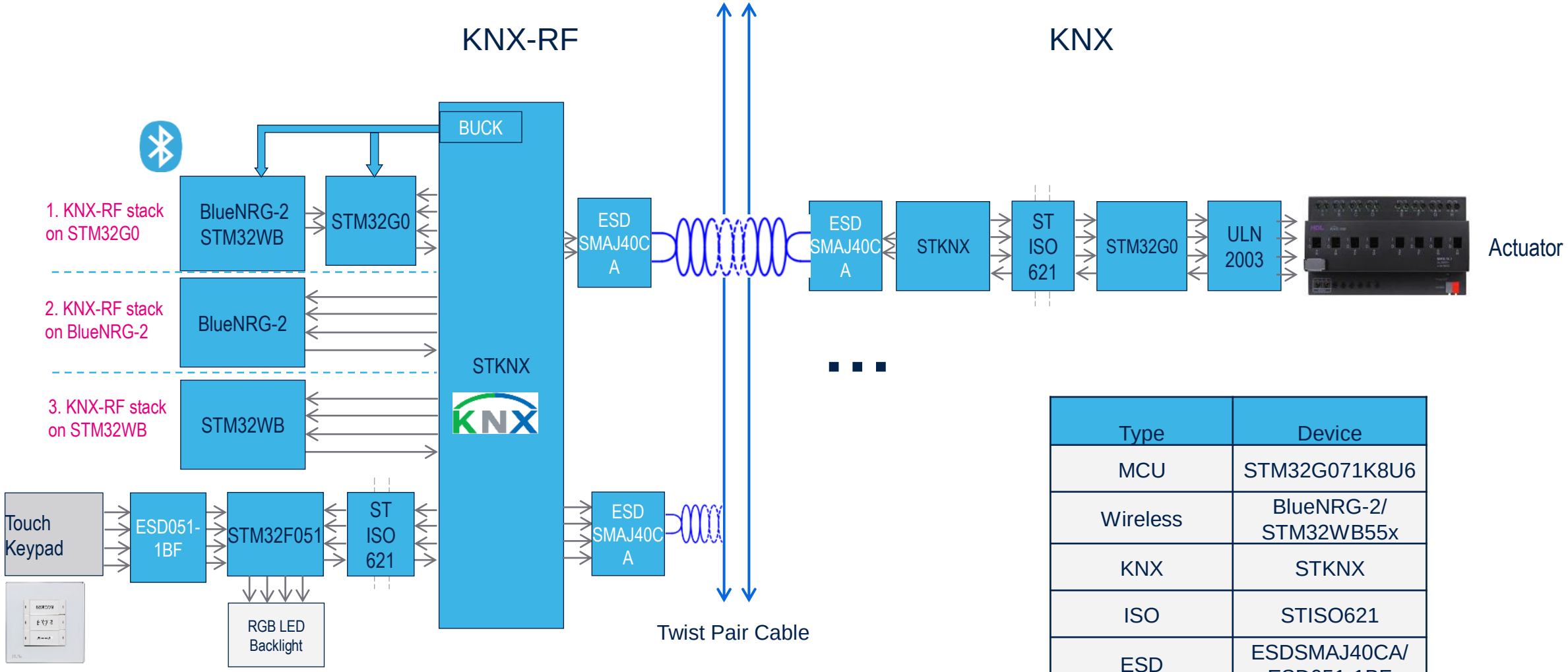
- STKNX
- STM32F103
- SMAJ40CA
- STM32L151
- BlueNRG-232
- LD1117S50TR
- LD39050PU33R
- LDS3985PU33R
- LED1642GW
- LSM6DS3
- LPS25HB
- USBLC6-2SC6
- ST2378E
- STG3692

相关演示板/评估板

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

life.augmented

KNX-RF 框图



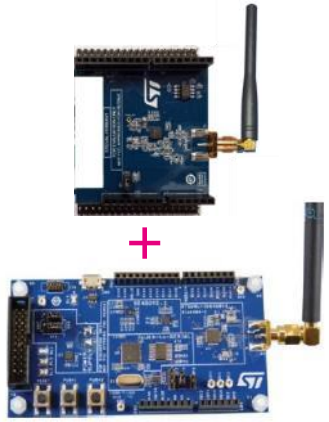
Type	Device
MCU	STM32G071K8U6
Wireless	BlueNRG-2/ STM32WB55x
KNX	STKNX
ISO	STISO621
ESD	ESDSMAJ40CA/ ESD051-1BF
Driver	ULN2003

*Contact TM for Device Details

KNX 生态系统
演示板安装方案

KNX-RF 无线开关
设置使用 BLE

S2-LP transceiver

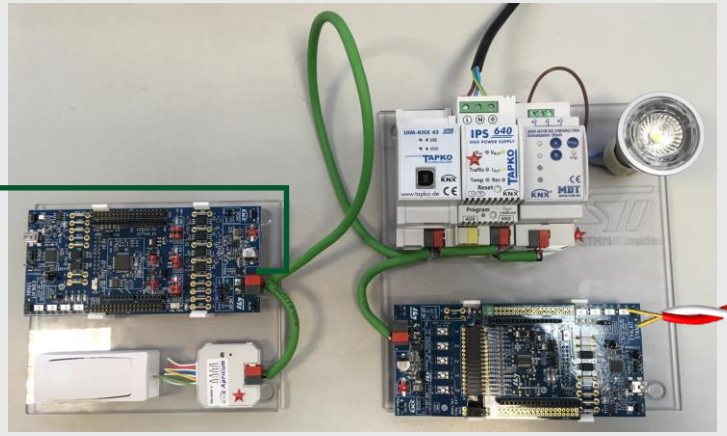


BlueNRG-2 SoC

KNX-RF LED 应用

S2-LP 发送器 | BlueNRG-2 SoC | X-Nucleo-LED

KNX RF & TP
网关



STKNX 演示板（已含）

iOS BLE
应用

STKNX 解决方案

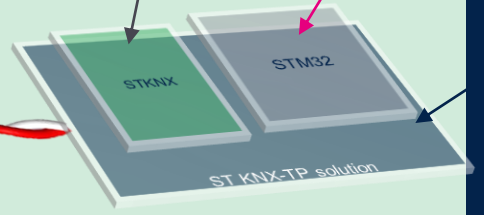
STKNX

Twisted Pair Transceiver

STM32

Wide choice of µC

STM32 dvt ecosystem



KNX stack
Partnership with

TAPKO TECHNOLOGIES GMBH

SHUFAN

Certified platform

Stack SW support

life.augmented

扫描以下二维码
获得功率及模拟产品更多资讯

PDSA 微信公众号

能以致动子网站

Thank you

© STMicroelectronics - All rights reserved.
ST logo is a trademark or a registered trademark of STMicroelectronics International NV or its affiliates in the EU and/or other countries.
For additional information about ST trademarks, please refer to www.st.com/trademarks.
All other product or service names are the property of their respective owners.

life.augmented