

STM32 family delivers Zigbee



Enabling seamless control of IoT devices in smart homes



Discover the power of Zigbee with STM32WB MCUs!

Seamlessly integrate your devices into a robust and efficient network, unlocking endless possibilities for smart homes, industrial automation, and IoT applications.

Thanks to Zigbee's low-power consumption and reliable communication capabilities, combined with STM32WB wireless MCUs, developers can enhance device connectivity, improve energy efficiency, and simplify their development.

Zigbee-certified STM32 products allow you to easily deploy Zigbee applications in smart homes and buildings.



KEY BENEFITS

- Reliable connectivity in challenging environments
- Extended battery life for energy-efficient operation
- Scalable mesh networking for flexible expansion
- Robust security against unauthorized access
- Simplified development for faster time to market

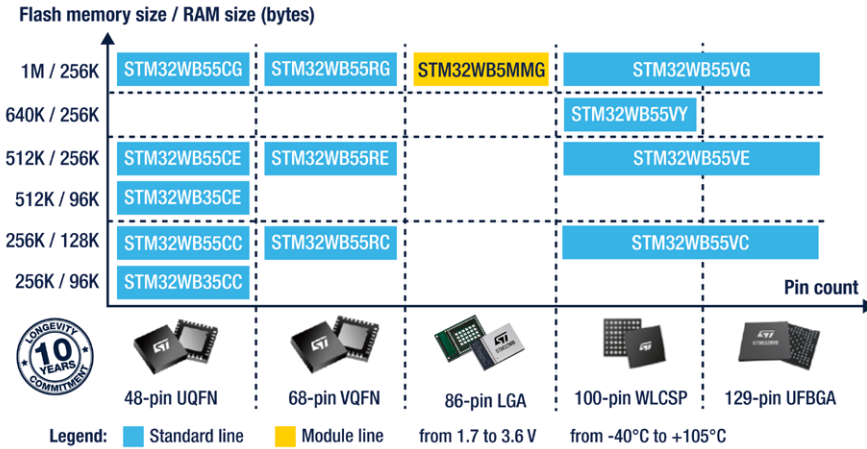
KEY APPLICATIONS

- Home automation
- Industrial control systems
- Building automation
- Medical data collection and monitoring
- HVAC control
- Wireless sensor networks

*Source: OMDIA CLT March 2022

STM32WB MCUs with Zigbee support

STM32WB is a multiprotocol wireless series based on Arm Cortex-M4 and Arm Cortex-M0+.



STM32WB hardware evaluation

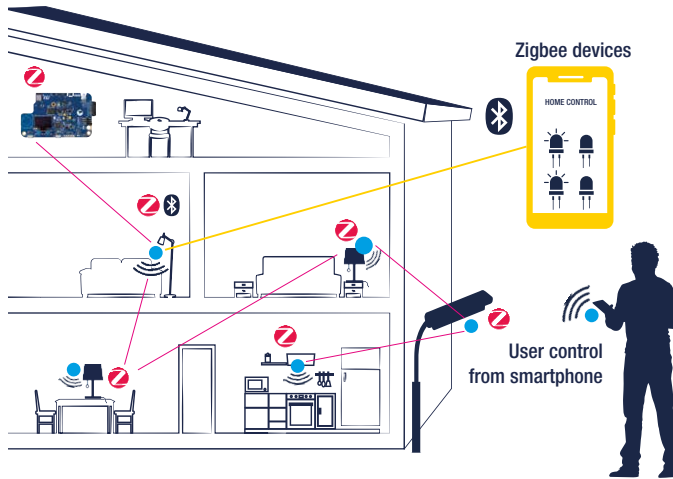


NUCLEO-WB55RG



STM32WB5MM-DK

Zigbee Mesh network + Bluetooth® Low Energy concurrent capability



STM32WB connectivity stacks and applications

Many integration possibilities available with Zigbee in standalone or in concurrent mode

M4	Bluetooth® Low Energy Application Mesh, Profile, Services	Zigbee 3.0 Application + ZCL	Zigbee 3.0 Application + ZCL
	Bluetooth® Low Energy 5 stack	Zigbee Stack	Zigbee Stack
M0+	BLE 5 LL HCI	802.15.4 MAC	802.15.4 MAC
	BLE - PHY	802.15.4 - PHY	802.15.4 - PHY
	STM32WB RF IP	STM32WB RF IP	STM32WB RF IP
	Zigbee + Bluetooth® Low Energy in concurrent mode	Zigbee standalone	Zigbee standalone

START DEVELOPING NOW!

STM32Cube ecosystem

More than 1 million developers have chosen STM32Cube, making it the reference in the industry.

STM32CubeWB firmware package

Discover our wiki site on STM32 connectivity solutions

