# Seamless smart home connectivity with Matter

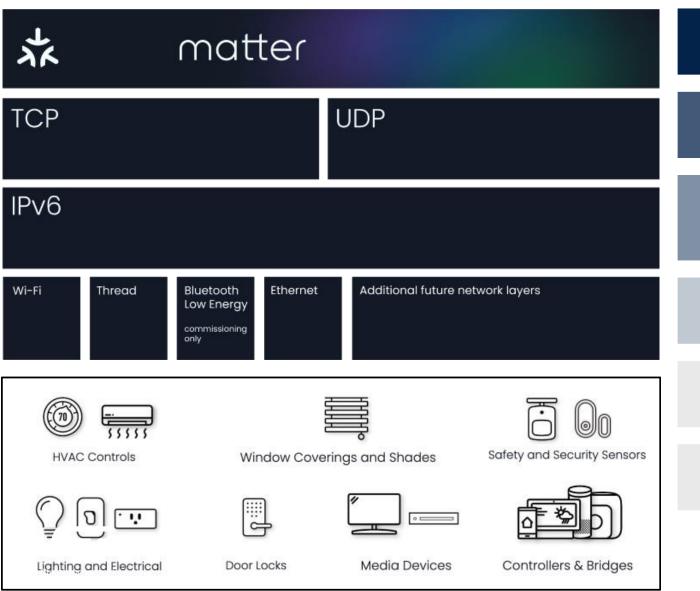




## **Developed for smart home and smart things applications**



## How Matter stacks up



# Common application layer Interoperability, simplified setup & control

### **IP-based**

Convergence layer across all compatible networks

### Secure

Comprehensive, Layered, Resilient, Agile AES-128-CCM encryption with 128-bit AES-CBC

### **Common protocol across devices**

Extendible to cloud

### Common data model

Core operational functions, multiple device types

### Low overhead

MCU-class computation, <1.5 Mbyte Flash

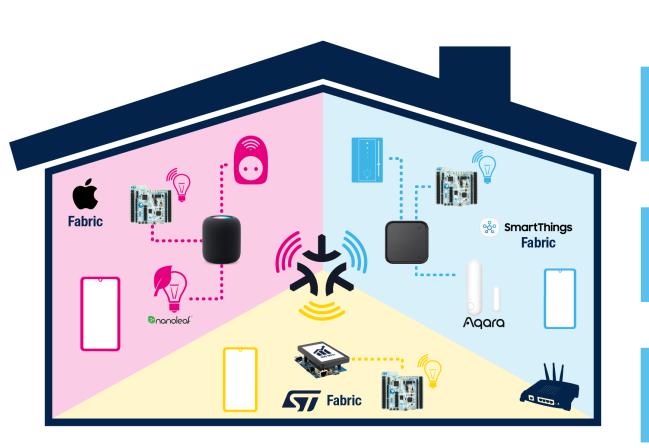






## Multi-admin with Matter

# Connect Matter devices to multiple ecosystems locally, securely & simultaneously



Consider multiple smart home gateways called "Fabric"

**Commission your MATTER device to a gateway** 

**Either gateway can control the MATTER device seamlessly** 



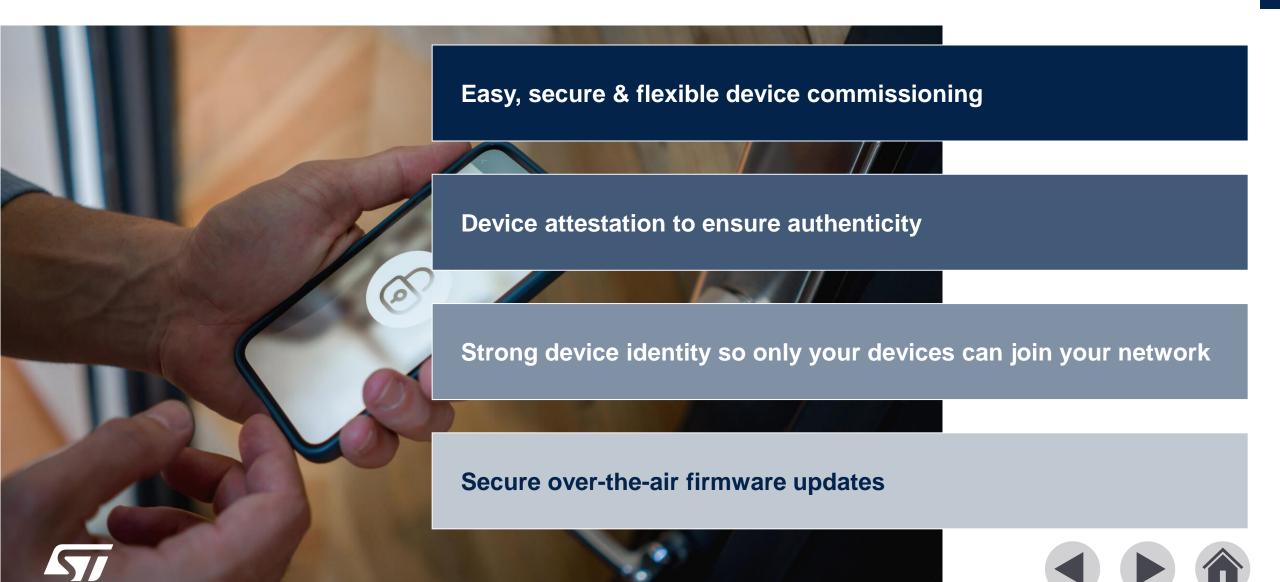




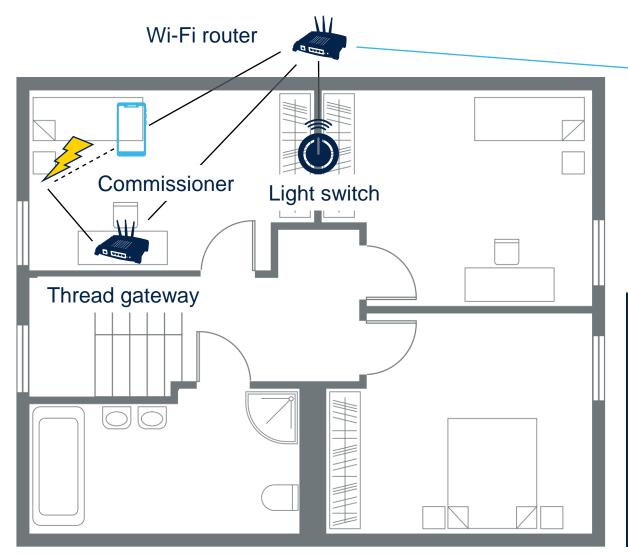
## Matter & security



## Matter & security



## Matter device commissioning





- 1. Device is manufactured and shipped
- 2. User brings device to smart home
- 3. User scans QR code or taps the NFC communication with commissioner
- 4. User initiates commissioning on device
- 5. Device is commissioned
- 6. Device operates smoothly in smart home

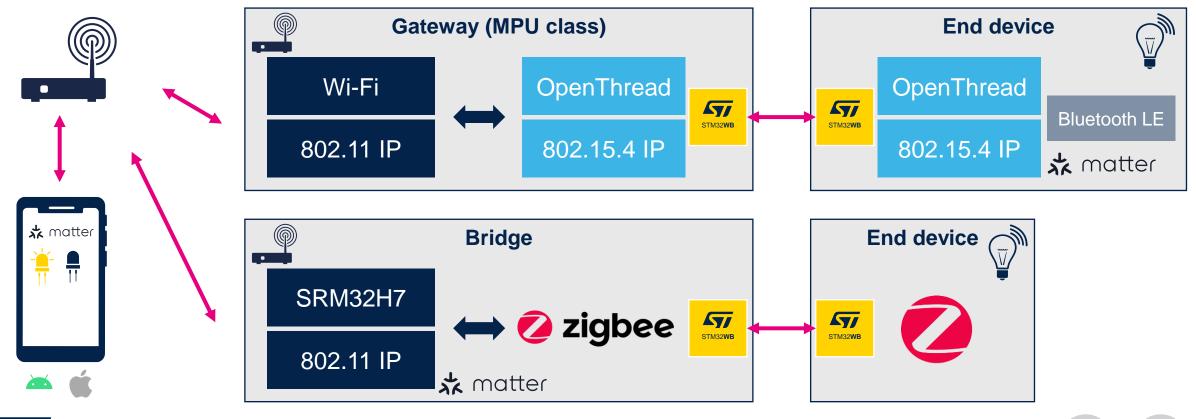






## STMicroelectronics Matter delivery today

## **Get started with STMicroelectronics Matter delivery today!**







## Discover our Matter portfolio

Device type

Matter Gateway (Border Router)

Matter over Thread end device

Matter bridge to no-matter tech

Connectivity

Thread RCP Ethernet/WiFi

Concurrent Dynamic Thread- Bluetooth LE

Any

Wireless MCUs in standalone

STM32WB

Hosted architecture (MCU/MPU + radio)

**RCP** model

STM32H7 + STM32WB STM32MP1 + STM32WB

NCP model

STM32H7 + STM32WB STM32U5 + STM32WB STM32MP1 + STM32WB

**NCP** 

STM32H7 + STM32WB STM32MP1 + STM32WB STM32H7 + STM32WL STM32MP1 + STM32WL

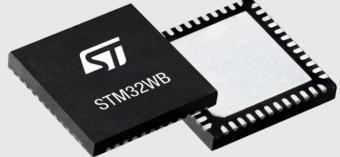






## STM32WB











**OPENTHREAD** 



Open 2.4 GHz radio multi-protocol

**IoT** protection ready

One-stop shop with STM32Cube ecosystem













## STM32MP13

**Cost effective** 

Affordable price point and most cost-effective PCB design on the market today

Easy-to-use

Dedicated HW & ecosystem for very fast integration into customer applications

**Industrial grade** 

100% operating time during 10 years combined with -40°C < T<sub>.1</sub> < 125°C

**Security** 

Highly secured processor with certifications addressing different markets

**Power efficient** 

Best-in-class low power modes

Ready to go

Available in mass production and sampling at your preferred distributor





