

MATTER-READY SOLUTIONS



Make your devices reliable, interoperable, and easier to adopt



Matter-ready portfolio built to enable interoperable, cloud-connected IoT devices

Smart homes and buildings should feel simple. Devices should connect fast, work together, and stay easy to manage from the Cloud. That is what Matter is built for.

Matter gives connected devices a common language across brands and ecosystems. Backed by the Connectivity Standards Alliance (CSA), it sets the foundation for the next generation of interoperable IoT.

ST helps you move faster with **Matter-ready products built for the full range of Matter topologies**, along with a strong development ecosystem. Whether you are developing border routers, Matter end devices, or Matter-to-non-Matter bridges, ST has a solution for you.

KEY BENEFITS

- Solutions for all matter topologies
- Multi-protocol support for concurrent mode
- Bluetooth® Low Energy, Thread, Wi-Fi, and NFC support
- Commissioning for both powered and battery-less devices
- Security features to protect Matter credentials and secure device attestation

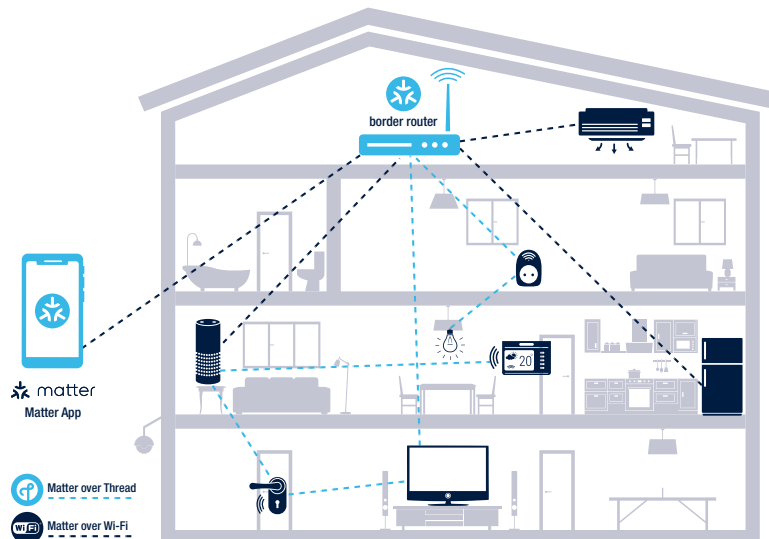
KEY APPLICATIONS

- Temperature and pressure monitors
- Door locks
- Lighting
- White goods
- Bridges & Gateways

Ready to help your device feel right from the start?

In a Matter network, devices can use Wi-Fi, Thread, or Ethernet, and each one has a clear role to play. Some act as end devices. Others serve as controllers or bridges. Together, they create a connected experience that feels seamless.

Before devices can work together, they must first be commissioned. That first step should be simple, smooth, and reliable. With Matter, commissioning can happen through Bluetooth® Low Energy with NFC assistance, or even through NFC alone, making setup easier without compromising security for both powered and battery-less IoT devices.



ST Matter-ready solutions

Matter device type	Connectivity technology	Standalone (Wireless MCUs)	Hosted architecture (MCU/MPU + radio companion)	Matter attestation secure companion	Matter commissioning companion
Matter gateway (border router)	Thread Ethernet/Wi-Fi	-	STM32MP1 + STM32WBx or STM32U5/H5/N6 + ST67W611M1***	STSAFE-A120	-
Matter over Wi-Fi (end device)	Concurrent Dynamic Wi-Fi – Bluetooth® LE	-	STM32U5/H5/N6 + ST67W611M1		ST25DA-C ST25TV02KC** ST25DV04KC** ST25TN01K**
	NFC				
Matter over Thread (end device)	Concurrent Dynamic Thread – Bluetooth® LE	STM32WBA6	-		
	NFC	-			
Matter bridge to non-Matter technologies	Any*	-	STM32H7 + STM32WBA5/STM32WBA6		

Notes: * Data model bridging Matter to any other technology

** Onboarding only

*** Thread support will be available soon

START DEVELOPING WITH X-CUBE-MATTER

Reduce certification costs: Bluetooth® Low Energy, Thread, Wi-Fi and NFC certifications. Pre-certified Matter SDK and Thread RCP.

Effortless Matter integration: Seamlessly add Matter to your STM32 devices with our regularly updated SDK.

Broad connectivity: Supports Thread, Wi-Fi, NFC and Ethernet for maximum flexibility.

Packed with features: OTA, provisioning, and sleep modes, it's all here.

Fast prototyping: Pre-integrated reference boards make development a breeze.

Expert support: Wiki, FAE team, and community. We're with you every step of the way.

X-CUBE-MATTER
firmware package



Wiki



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