



SECURE CONNECTIONS  
FOR A SMARTER WORLD

# MATTER DEVELOPMENT PLATFORMS

## Simplify and Accelerate Matter Designs



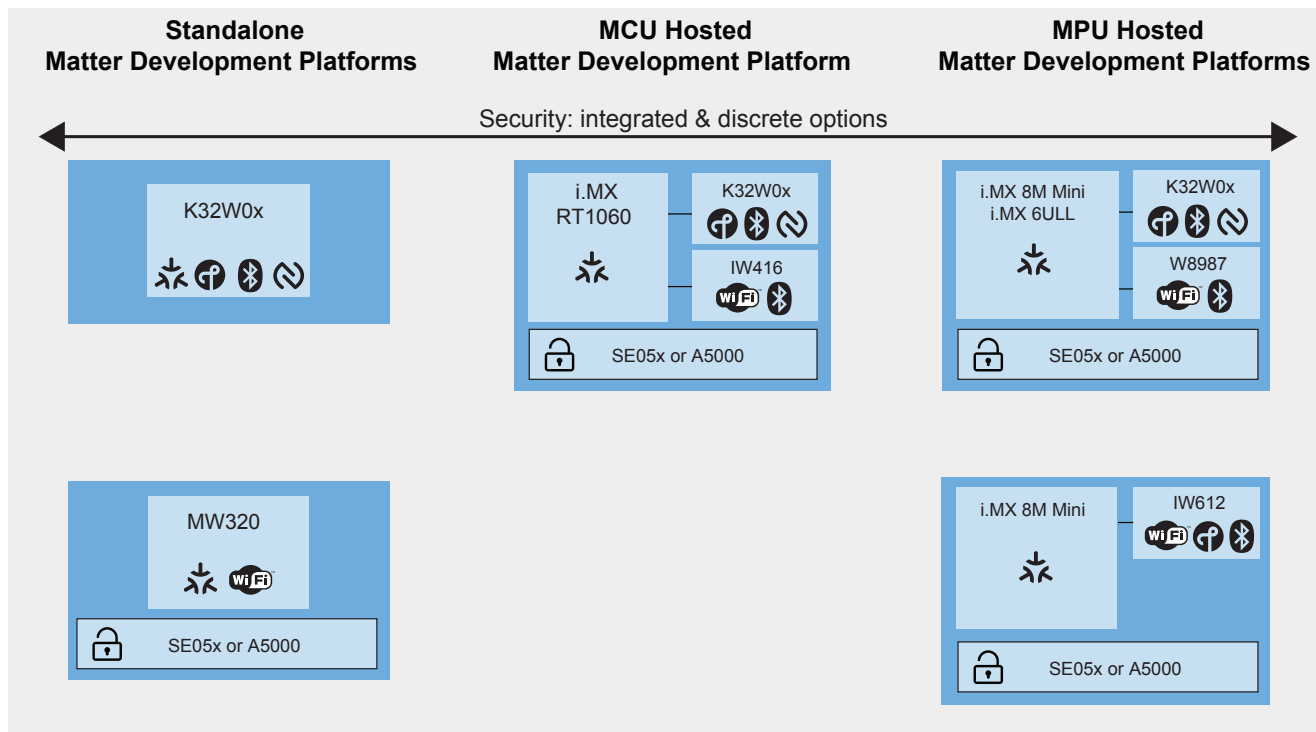
Matter will transform the smart home from a fragmented collection of smart devices into a unified network of smart devices to create a truly intelligent home. NXP’s Matter Development Platforms include hardware and software to streamline creating Matter products.

Each of these development platforms target different Matter smart home devices and use cases, and the complete source code is easily available on the Matter GitHub. The hardware is based around existing NXP evaluation boards connected together, giving designers the flexibility to select the right combination to meet their prototype end application requirements. Leveraging NXP’s broad portfolio of wireless MCUs, Wi-Fi MCUs and transceivers, crossover MCUs, MPUs and security technology, these development platforms scale to support all Matter smart home device types and application requirements.

Product Architecture	NXP Matter Development Platform
Host-less/Standalone	Matter over Thread® with the K32W0x multi-protocol MCU development platform Matter over Wi-Fi® using the MW320 Wi-Fi MCU development platform
MCU/RTOS Hosted	RT1060 hosted development platform with a K32W0x for Thread routing and an IW416 multi-protocol transceiver for Wi-Fi connectivity
MPU/Linux® Hosted	i.MX 8M Mini hosted development platform with a K32W0x for Thread routing and a W8987 transceiver for Wi-Fi connectivity i.MX 8M Mini hosted development platform with an IW612 tri-radio transceiver for Thread routing and Wi-Fi connectivity

### ALL MATTER 1.0 DEVICE TYPES





■ NXP Technology    □ Secure Element can be added for turnkey Matter security, including credential provisioning

Matter Development Platform	Matter Function	Wi-Fi	Thread	EVKs
K32W0x (RTOS MCU, Thread, Bluetooth LE)	Matter Device		✓	IOTZTB-DK006
88MW320 (RTOS MCU, Wi-Fi)	Matter Device	✓		RDMW320-R0
i.MX RT1060 (RTOS applications processor) IW416 (Wi-Fi 4, Bluetooth LE) K32W0x (RTOS MCU, Thread, Bluetooth LE)	Matter Device	✓	✓	MIMXRT1060-EVK IW416 Partner Module IOTZTB-DK006 OM-SE051ARD or OM-A5000ARD (Optional – Secure Element)
i.MX8M Mini (Linux applications processor) 88W8987 (Wi-Fi 5, Bluetooth LE) K32W0x (RTOS MCU, Thread, Bluetooth LE)	Matter Controller & Device	✓	✓ (Border Router)	8MMINILPD4-EVKB (Kit includes W8987 module) IOTZTB-DK006 OM-SE051ARD or OM-A5000ARD (Optional – Secure Element)
i.MX 8M Mini (Linux applications processor) IW612 (Wi-Fi 6, Thread, Bluetooth LE)	Matter Controller & Device	✓	✓ (Border Router)	Pre-production

To learn more about these development platforms, capabilities and availability, visit [www.nxp.com/matter](http://www.nxp.com/matter).

[www.nxp.com](http://www.nxp.com)

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