

QCOM Matter Roadmap

Matter Overview

CSA Matter Roadmap

Matter Solution

QCOM SW SDK

QCOM Matter Roadmap



Matter Overview

- **Matter** is a new connectivity standard to simplify Smart home ecosystem. There is one open-source project created by CSA alliance.
- Main drivers for Matter : Amazon Google, Apple, and Samsung. QCOM is member of Matter group including 200+ companies.
- C&A customers, iRobot, SS RB1/RB2 etc.,

For Consumers

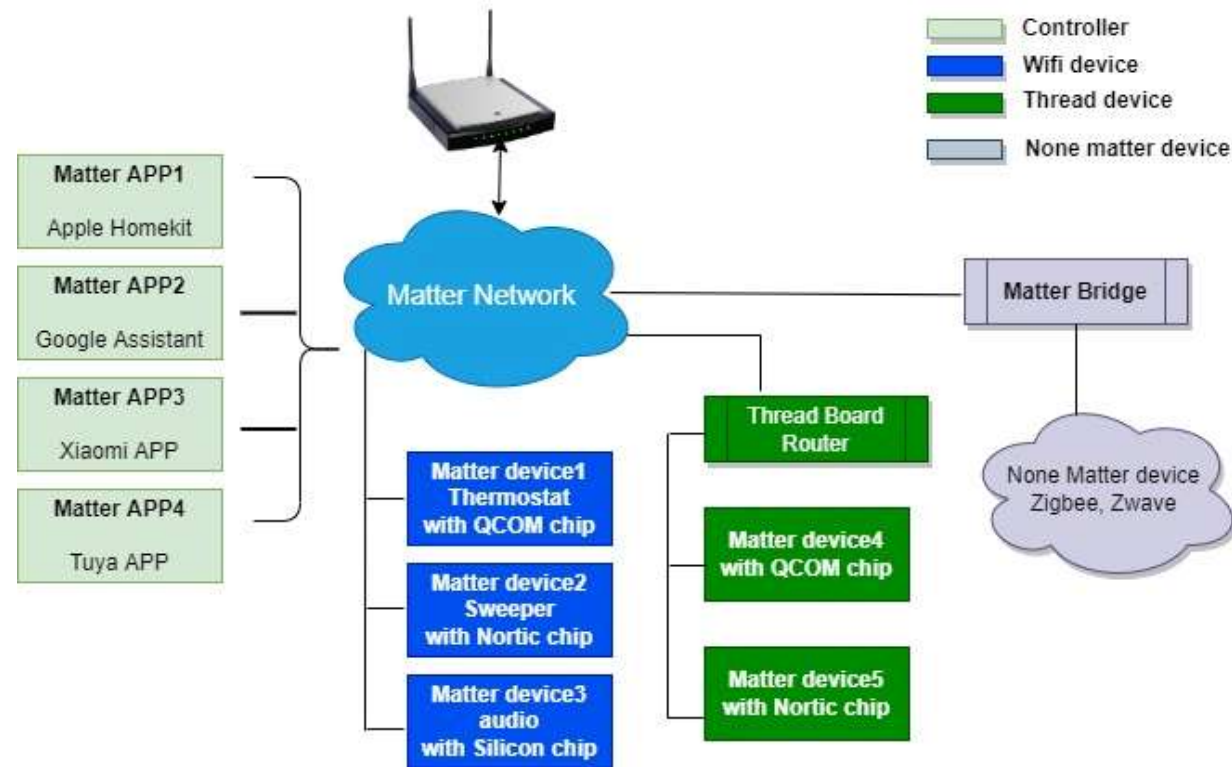
- It will provide a more consistent set up experience
- It will enable Multi-Admin capabilities that will work across & with multiple ecosystems

For Developers

- It will allow them to develop once and deploy everywhere
- It will provide a unified community of support

For Retailers

- It will enable a simplified purchasing experience
- It will minimize product returns

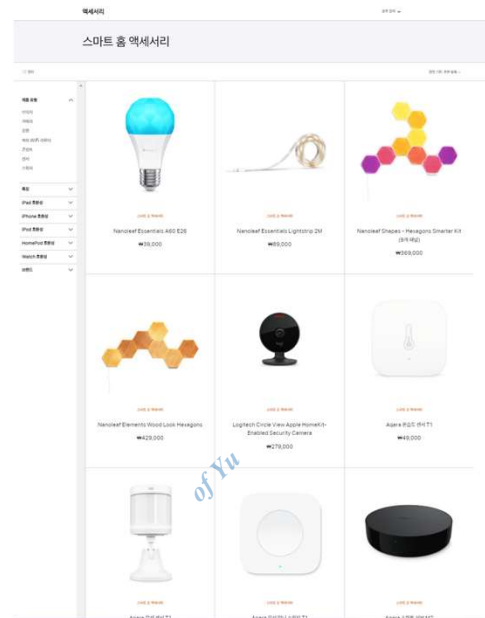


Example of Matter

- <https://matter-smarthome.de/en/overview-products-compatible-with-matter/>
- <https://www.apple.com/kr/shop/accessories/all/homekit>

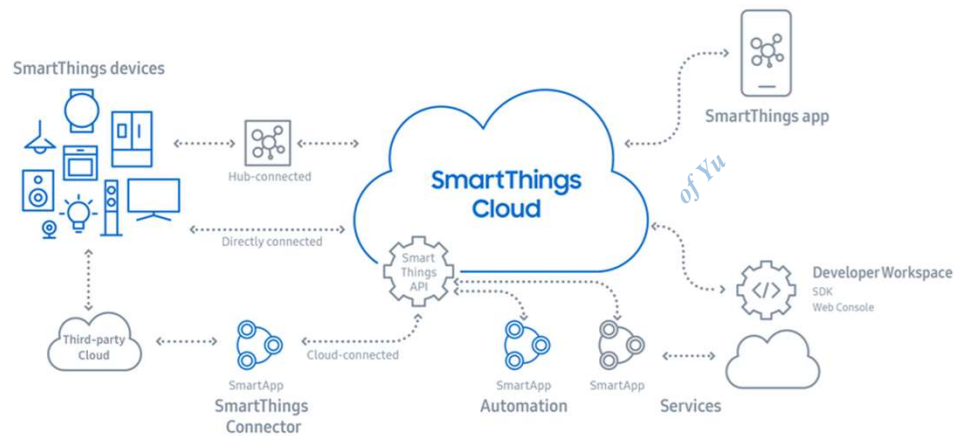
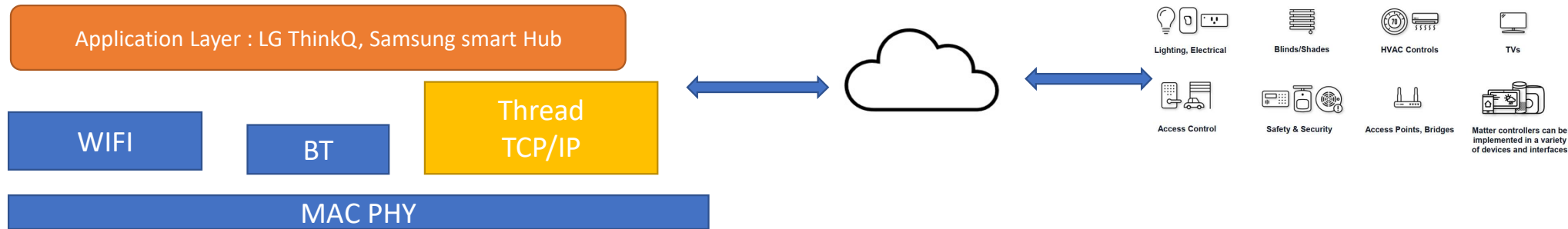


IKEA



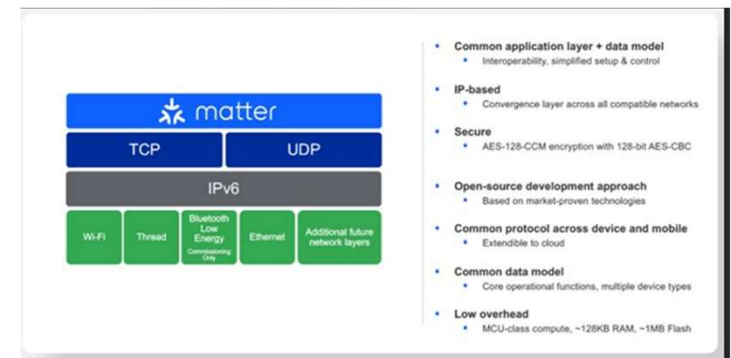
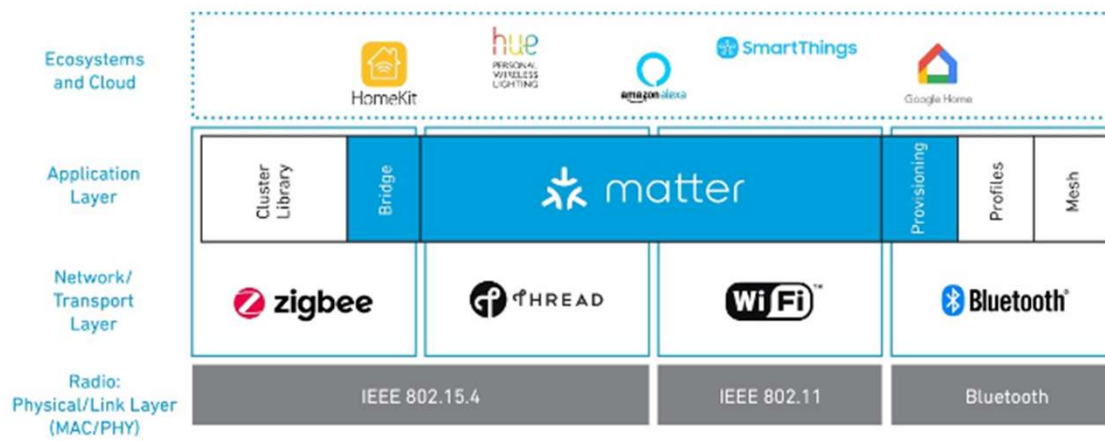
Apple Homekit

Concept of Matter



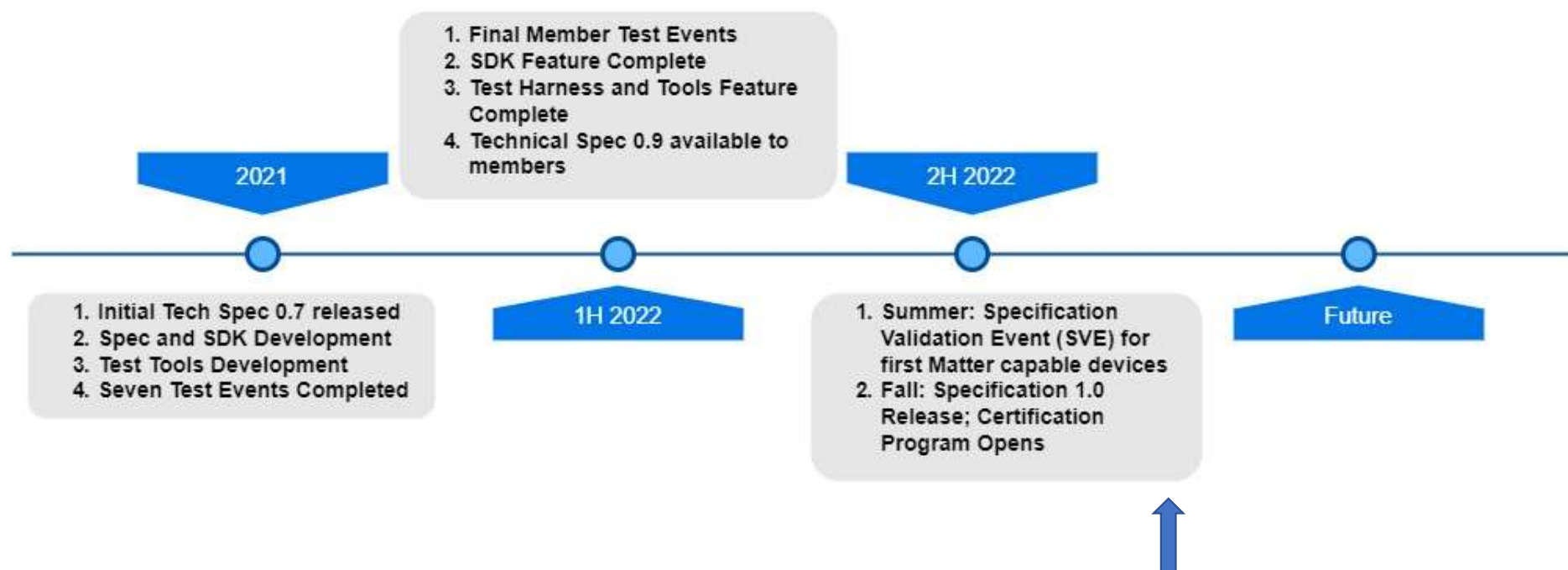
Concept of Matter

<https://brunch.co.kr/@iotstlabs/226>



CSA Matter roadmap

Matter spec v1.0 release at Oct 2022





CSA Matter roadmap of devices

Matter functions now

- Over Ethernet, WiFi, Thread.
- BLE is for commission.

Devices Planned for 1.0 Launch

- Lighting and electrical
- Fan controls
- HVAC controls
- Door locks
- Sensors (inc. Safety and security)
- Window coverings/shades
- TVs
- Bridges



Lighting, Electrical



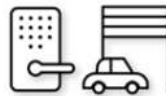
Blinds/Shades



HVAC Controls



TVs



Access Control



Safety & Security



Access Points, Bridges

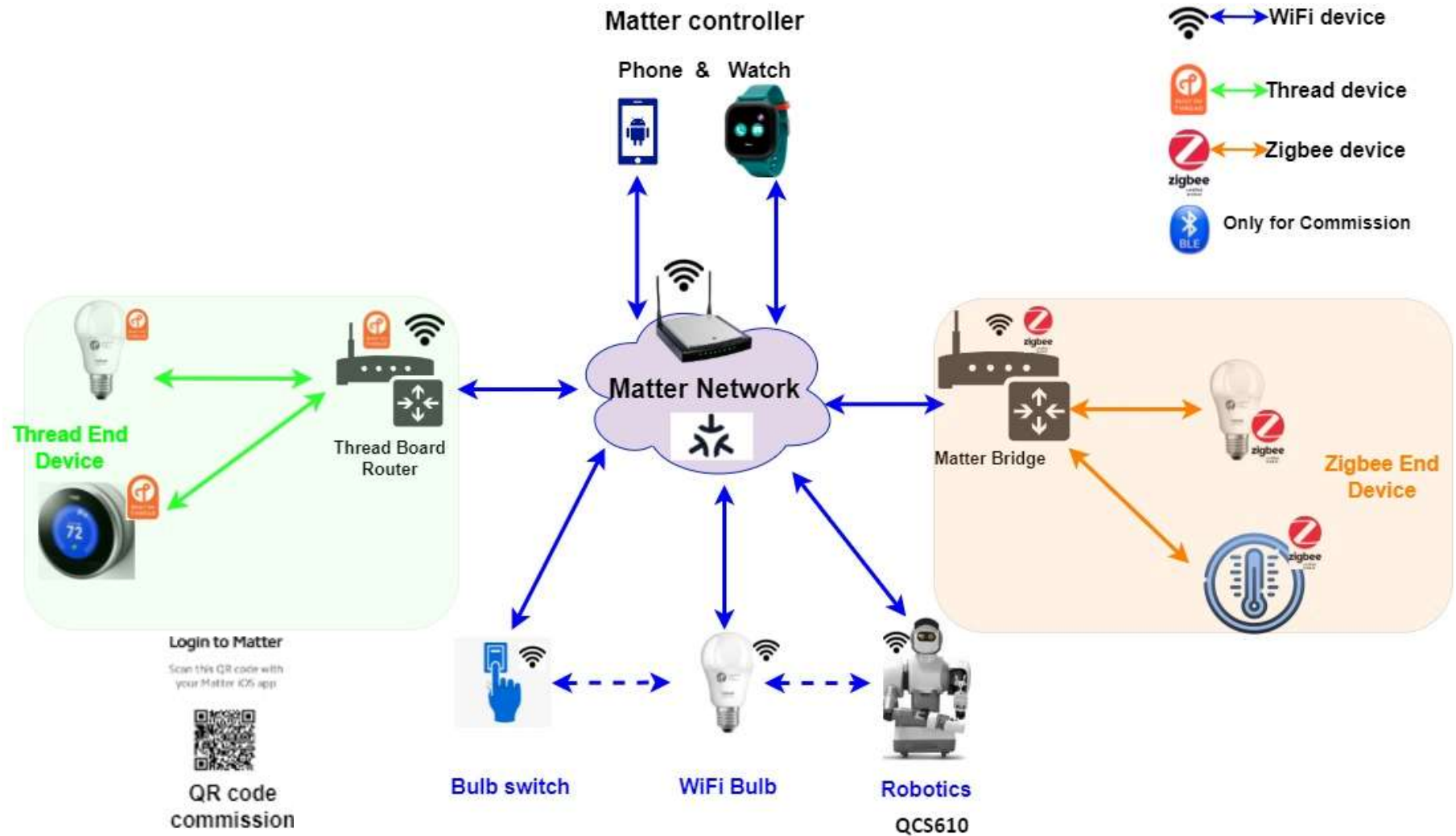


Matter controllers can be implemented in a variety of devices and interfaces

Next Set of Devices (active Use Case teams)

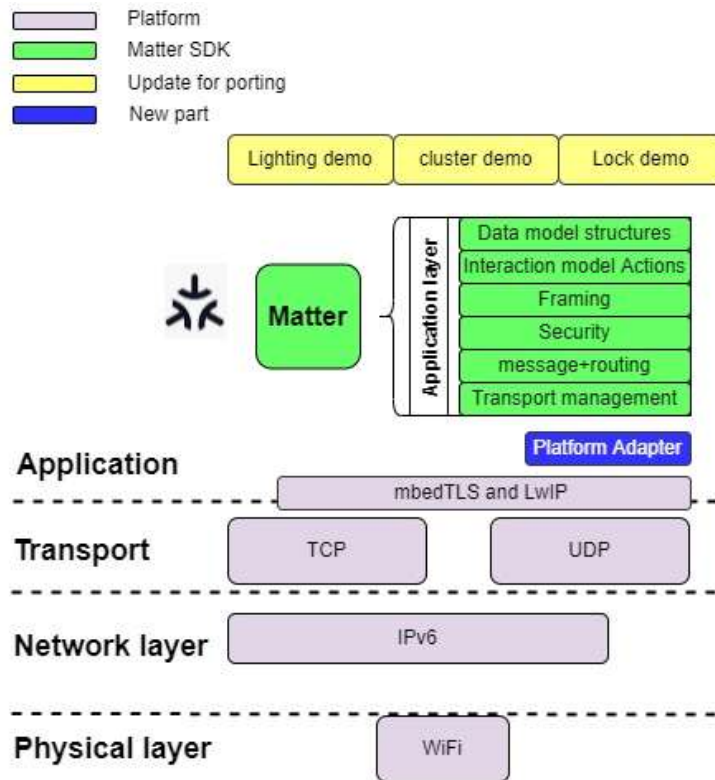
- Appliances (White goods)
- Robot vacuum cleaners
- Doorbells / Cameras
- Energy management (EV Charging +)
- Access points, Border Routers

Matter Solution



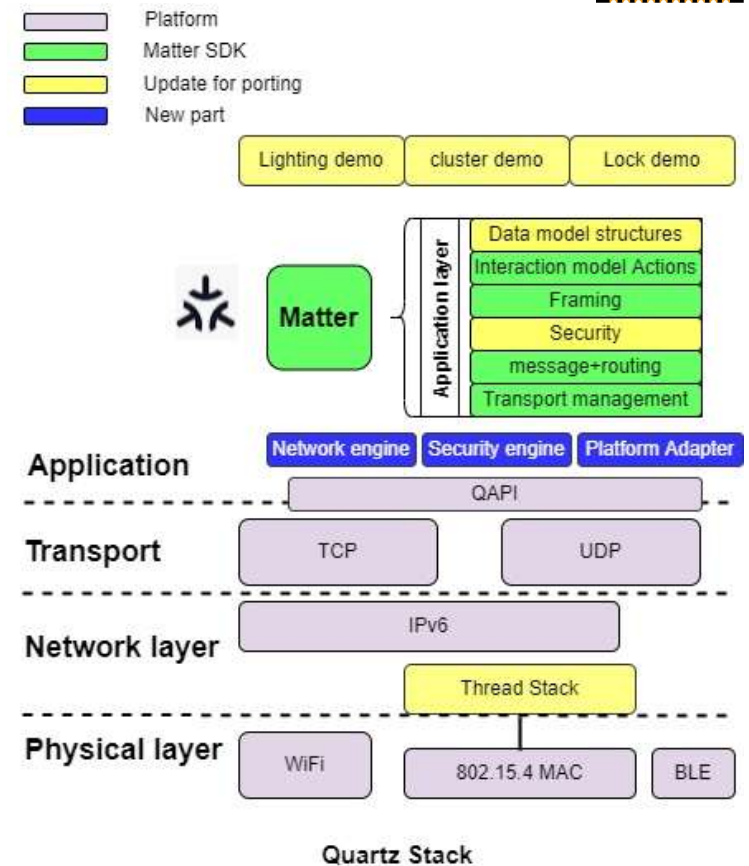
Matter End device Solution 1 – MCU&RTOS

Neutrino (Fermion)



OS Support:
Embedded FreeRTOS

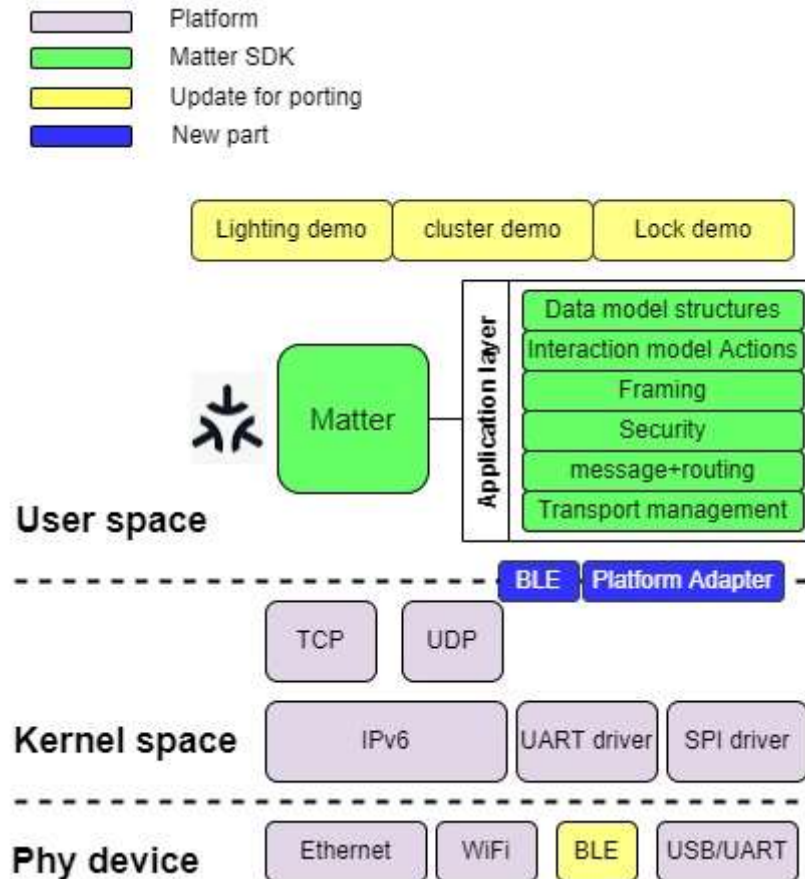
QCA4020 & QCA4024



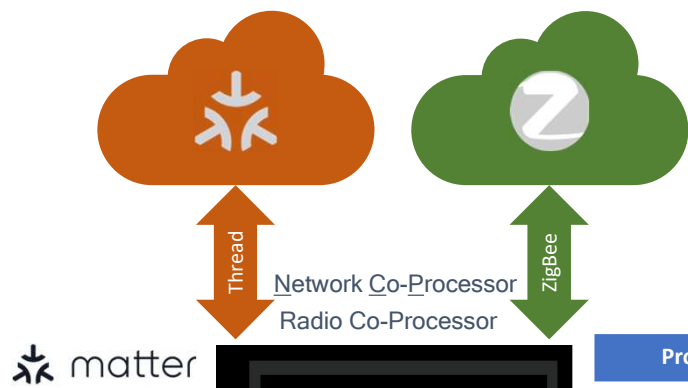
Matter End device Solution 2 - Linux platform

OS Support:

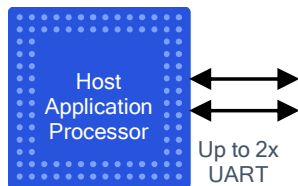
Linux Distribution including
LE, LA, Ubuntu20, OpenWRT



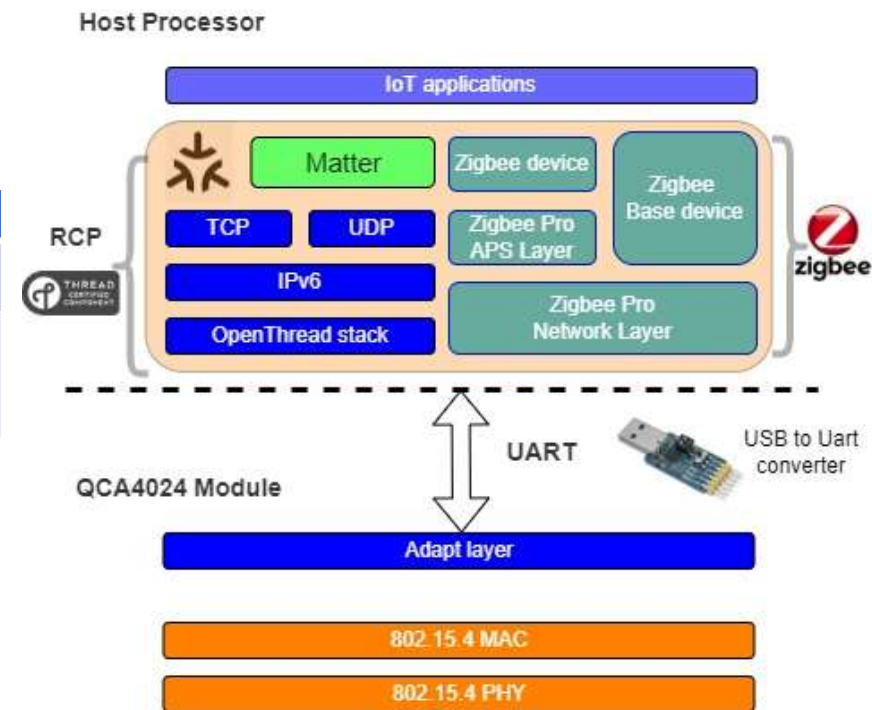
Matter device solution 3.1 - Host Attach Quartz



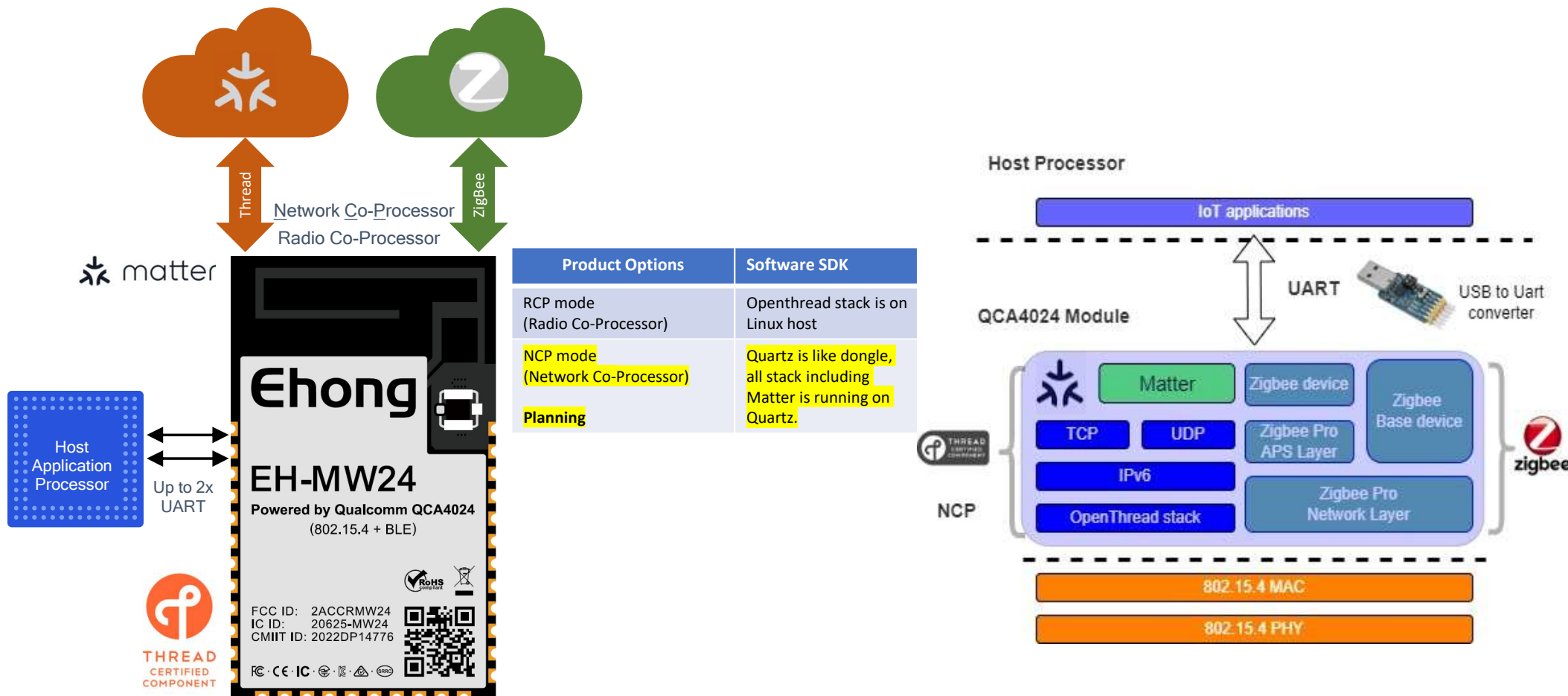
matter



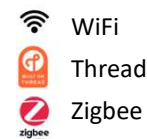
Product Options	Software SDK
RCP mode (Radio Co-Processor)	Openthread stack is on Linux host
NCP mode (Network Co-Processor)	Quartz is like dongle, all stack including Matter is running on Quartz.



Matter device solution 3.2 - Host Attach Quartz

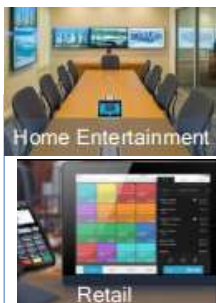


QCOM Matter Roadmap



Snapdragon

QCS610



- IPQ9574+QCA4024
- QRB5165/RB5 + QCA4024
- Retail
- Snapdragon/WIN platforms



QCA4024



Device with screen,
NOT hardware
dependency

WIN

NA

C&A

QCA4020

QCA4024

QCS4531+QCA4024

QCA4020

NA

Matter products

WiFi end
Device

Thread end
Device

Thread
Board Router

Home Gateway +
Thread board router

Matter
Bridge

Controller

2022 H2

2023 H1

2023 H2

Matter products:

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- HVAC controls
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- Window coverings/shades
- TVs
- **Bridges**

Next Set of Devices (active Use Case teams)

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- Energy management (EV Charging +)
- **Access points, Border Routers**