

Matter Webinar Series



matter



ESPRESSIF

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23rd May 2023

Introduction to Matter

2

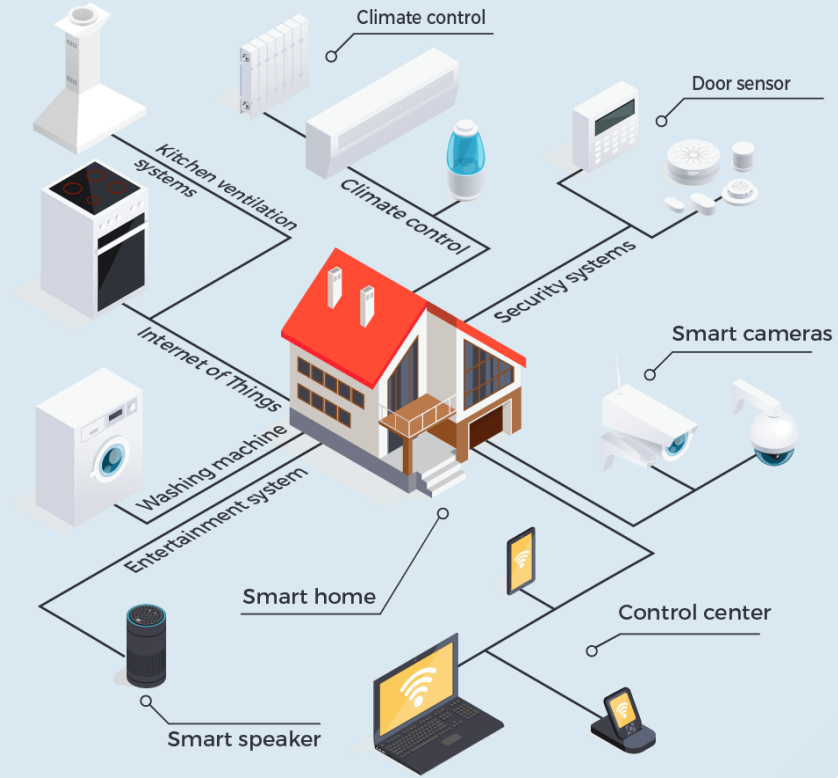
26th May 2023

Building a Matter Device

3

30th May 2023

**Matter Certification and
Device Certificates**



Building a Matter Device

Espressif Systems

Contents



- 1 | Session 1 Recap
- 2 | Espressif's SDK for Matter
- 3 | Try Matter with ESP-Launchpad
- 4 | Development Host Setup
- 5 | Let's Build a Matter Light

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Session 1 Recap



Session 1 Recap



1

| Why, What, How

2

| Matter Network

3

| Matter Data Model

4

| Key Features

5

| Current Status

6

| Espressif Matter Offering

2

Espressif's SDK for Matter

<https://github.com/espressif/esp-matter>

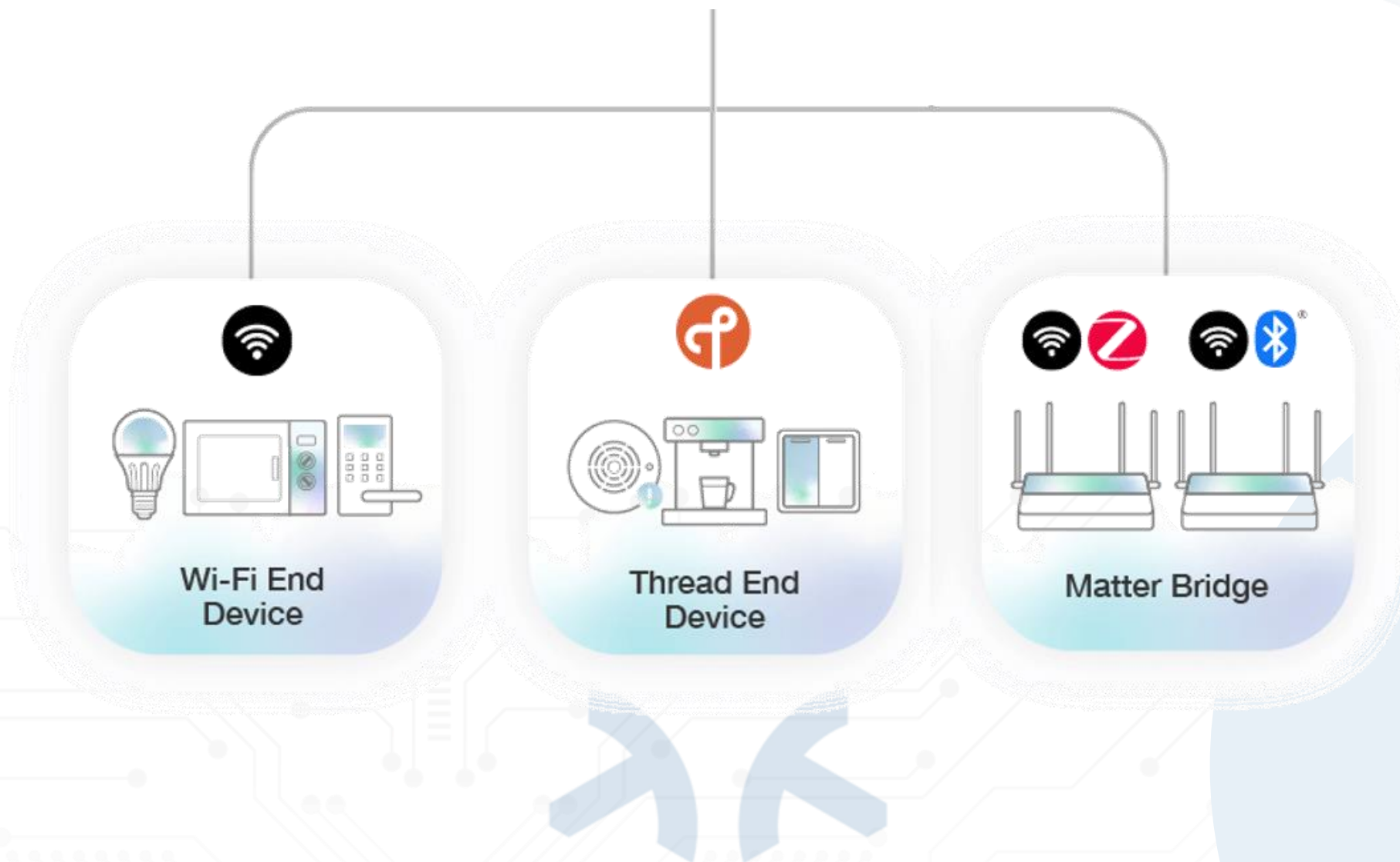


Espressif's SDK for Matter



- Introduction
- Supported device types
- Supported SoCs
- Supported IDF versions
- [connectedhomeip](#) SDK
- Matter Solutions

Espressif's SDK for Matter



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Try Matter with ESP-Launchpad

<https://espressif.github.io/esp-launchpad/?solution=matter>



Try it with ESP-Launchpad



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- What is Launchpad?
- Flashing an ESP32-C3
- Commissioning and Control
- Multiple Fabrics/Admins



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Development Host Setup



Development Host Setup



- Supported Hosts
- Setup esp-idf
- Setup esp-matter



5

Let's Build a Matter Light



Let's Build a Matter Light



- Repository structure
- Building an On/Off Light
- Data Model APIs
- Different callbacks
- On/Off Light to Color temperature Light



Commands

Commission thread device using ble

```
chip-tool pairing ble-thread 0xde309  
hex:0e0800000000000010000000300000f35060004001fffe00208dead00beef00cafe0708fd311c27e908625d0510001  
12233445566778899aabbccddeeff030f4f70656e5468726561642d36343630010212340410104810e2315100afd6bc92  
15a6bfac530c0402a0f7f8 20202021 3840
```

Toggle the LED

```
chip-tool onoff toggle 0xde309 1
```



References



Espressif's SDK for Matter

- <https://github.com/espressif/esp-matter>

esp-matter Programming Guide

- <https://docs.espressif.com/projects/esp-matter/en/latest/esp32/>

Developing your product

- <https://docs.espressif.com/projects/esp-matter/en/latest/esp32/developing.html#developing-your-product>

Launchpad Link

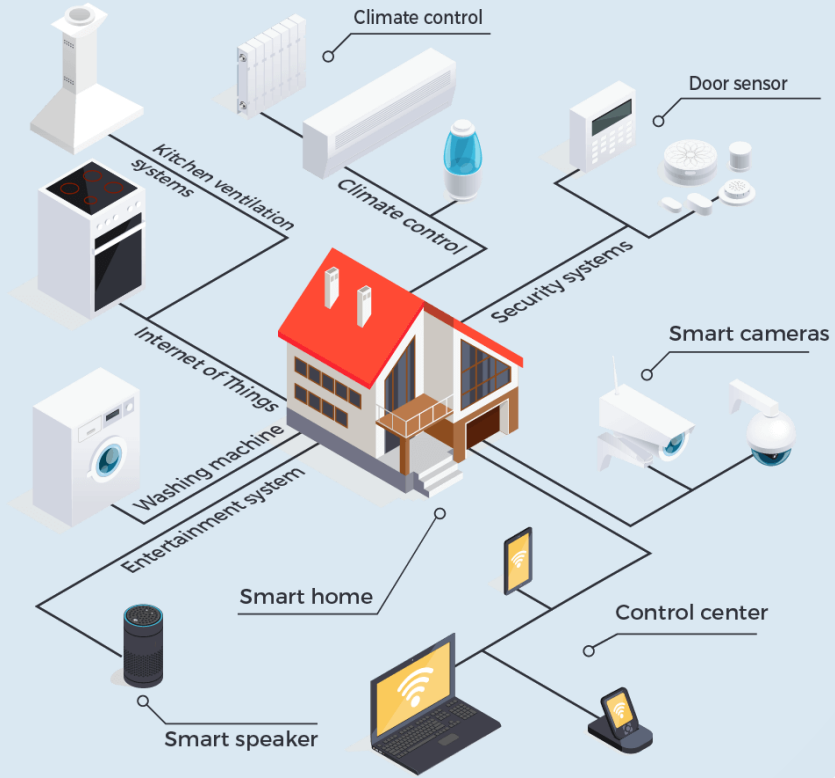
- <https://espressif.github.io/esp-launchpad/?solution=matter>

Connectedhomeip SDK

- <https://github.com/project-chip/connectedhomeip>

ESP Thread BR

- <https://github.com/espressif/esp-thread-br>



Thank You!

Any Questions?

Upcoming Sessions



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