



How Matter is Unifying the Smart Home

Agenda

01 Why 02 What **03** How 04 Silicon Labs' Solutions 05 The Development Journey 06 Demo





Why Matter

Smart Home Dilemma – Connected Lock Example



Smart Home Dilemma

- Multiple wireless technologies available
- · Devices often tied to one Ecosystem
- · Requires different products, apps and hubs

Manufacturers

- Manufacturers are forced to pick ecosystem(s)
- Need to ship multiple SKUs for connectivity standards
- Need to learn different IoT technologies and ecosystems
- Retailers
 - · Leads to duplicate products on the shelf
 - Difficult to provide expert advice to consumer questions
 - High return rates due to interoperability or incompatibility
- Consumers
 - Purchasing confusion
 - · Hard to mix and match the products they want
 - Difficult to change Ecosystems



DEVELOPER/MANUFACTURER

Single SKU Lower development & operational cost More time for innovation





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Single SKU Lower development & operational cost More time for innovation



RETAILER

Requires less shelf space Lowers inventory cost Minimizes returns



CONSUMER

Works with multiple ecosystems Simplifies purchasing experience Provides better user experience





What is Matter

What is Matter?

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1.1 NOW AVAILABLE

Driving the Matter Standard



Developed by over 300 industry-leading companies

Represents value chain from Semiconductor to Ecosystem

Simple

• Easy to setup and control devices with multiple Ecosystems

Interoperable

· Devices with the Matter logo are interoperable by design

Reliable

- · Reliable local connectivity works even if internet is down
- Secure
 - · Authentication before joining and encrypted data transfer
- Open
 - · The specification is open source and Based on IP connectivity

"Members represented are a small sample of the companies supporting Matter."





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Matter Devices



Matter Devices





Matter Devices









DEVICE TRANSITION

Software updates to devices in millions of homes, let people use Matter with many devices they already have. Hundreds of devices have been certified!

Other devices won't get left behind — Matter supports bridging to technologies like Zigbee and Z-Wave, and major ecosystems will support existing integrations.

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Ecosystem Support to Date (June 2023)

	Matter / 1	Matter / Thread		Matter / Wi-Fi	
Ecosystem	Supported Devices	Mobile App Support	Supported Devices	Mobile App Support	Additional Info
amazon	Echo Gen 4 eero 6 eero Pro eero Beacon	iOS	Echo Gen 4 Echo Dot 3/4/5th gen Echo Studio Echo Show 5/8/10/15 Echo Flex and Plus Eero 5	iOS	<u>Amazon Link</u>
É	HomePod Mini Apple TV 4K HomePod (Gen 2)	iOS	HomePod Mini Apple TV 4K HomePod (Gen 1 & 2)	iOS	<u>Apple Link</u>
G	Nest Hub (2 nd Gen and Max) Nest WiFi Nest Wi-Fi Pro	iOS	Google Mini Nest Mini & Audio Nest Hub (1 st Gen, 2 nd Gen, and Max) Nest WiFi	iOS	<u>Google Link</u>
SmartThings	Aeotec SmartThings Hub Hub Everywhere Samsung branded: • TVs • Charging hubs • Refrigerators	iOS	Aeotec SmartThings Hub Hub Everywhere Samsung branded: • TVs • Charging hubs • Refrigerators	ios	<u>Samsung Link</u>





How do devices communicate over Matter?

Network Protocol and Topology



- Based on Internet Protocol v6
- Native support for Wi-Fi and Thread
- Thread devices require border routers
- Devices use Bluetooth for commissioning
- Bridges can link to other protocols
 - · Zigbee and Z-Wave



Matter Fabric and Multi-Admin

- Multiple transports
 - Matter can work on top of multiple wireless or wired technologies to transport the IP packets
- Fabric
 - · A collection of Matter devices sharing a trusted root
 - A fabric is identified by a fabric ID which is a 64-bit number
- Node
 - In a Matter fabric, each physical device is called a node
 - Each node is identified by a **node ID** which is a **64-bit number**
- Multi-Admin
 - Provides a means for multiple Matter Fabrics and their administrators to manage devices
 - · Each Matter Fabric can have unique root authority
 - · Devices must support multiple Matter Admins
 - Matter admins dictate the access control lists for their Matter fabric, and thus the devices can access the device
 - Example:
 - Matter Admin 1 can grant control privileges to Controllers on Fabric A
 - Matter Admin 2 can grant control privileges to Controllers on Fabric B
 - · Access Control is separate for both fabrics









How Matter Helps Developers Address Security Concerns

Matter Raises the Bar for IoT Security & Privacy

10 Security Tenants Promoted by CSA

- 1. Easy, secure, and flexible device commissioning
- 2. Validation that each device is authentic and certified
- 3. Up-to-date info via Distributed Compliance Ledger
- 4. Strong device identity so only your devices can join
- 5. Secured communications protecting confidentiality, etc.
- 6. Even group communications secured
- 7. Multiple administrators and controllers, maximizing choice
- 8. Verified access controls to prevent unauthorized actions
- 9. Secured, standard software updates
- 10. Remote monitoring of software integrity



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MANUFACTURING



Matter devices must be injected with a unique DAC certificate/ private key, Onboarding Payload (QR code delivered), Certification Declaration (CD), and other static/ dynamic data during manufacturing. **(Mandatory)**

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DAC with VID/PID must be checked against the DCL and CD verified to ensure only authentic and certified Matter devices are commissioned. (Mandatory)

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DEVICE COMMUNICATION



Communication between Matter devices must be secured and encrypted using cryptographic keys and PBKDF. (Mandatory) COMMISSIONING



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SOFTWARE UPDATES



Devices must support OTA firmware updates to allow vulnerabilities to be patched **(Mandatory)**

Other Security Specifications

- Authentication and encryption keys must be generated by a "Deterministic Random Bit Generator" Seeded by NIST 800-90B TRNG (Mandatory)
- Debug interfaces and access to secure boot trust anchors should be disabled to only allow authorized access (fusing) (Recommended)
- DACs and operational private key confidentiality should be protected from remote attacks (Recommended)
- Vendors should have a public policy & mechanism to identify and rectify security vulnerabilities in a timely manner (Recommended)
- The software should be encrypted at rest to prevent unauthorized access to core IP (Optional)
- Some devices should be protected against physical attacks to prevent tampering, side-channel, or debug glitching attacks. (Optional)

Silicon Lab Secure Vault Mid & High supports all Matter security functionalities now (Shall, Should and May)





How Devices Become Matter Certified

Different Certification Paths

• Normal (Full Testing) Path for single product

- Full testing either at SVE and/or ATL
- Intended for new design products

Product Family Certification (PFC) Path

- Intended for certification of variants of the SAME product (same SW including Device ID, except regional differences)
- First "Parent" product needs full testing either at SVE or ATL
- · Other "Family" products are certified without the need for testing
- Certification by Similarity (CbS) Path
 - Intended for certification of a SIMILAR product (same Matter SW)
 - SIMILAR product must be certified by either Normal or Product Family Certification
 - Product is certified without the need for testing

Matter Certification Summary

Area	Certification Body	Testing Requirement	Certification Requirements
Matter	Connectivity Standards Alliance	Full Matter End Product Testing Reduced or No Testing for (CbS) and (PFC)	 CSA Membership Matter Testing completed Certification ID for each transport CSA Security Attestation completed Pay CSA Certification fee
Thread	Thread Group	No Testing required if using Silicon Labs Certified Libraries for SOC Authorized Test Lab Testing needed for RCP	 Thread Group Membership required (even for inheritance) Thread testing completed Apply for Thread Product Certification Pay Thread Certification Fee
Bluetooth	Bluetooth SIG	Reduced Testing if using Silicon Labs Bluetooth Qualified Component	 Bluetooth SIG Membership Completed BLE Testing Pay BLE Certification Fee
Wi-Fi	Wi-Fi Alliance	No Testing required if using Silicon Labs Certification	 No separate certification at Wi-Fi Alliance required if using Silicon Labs Certified Stack.
Ecosystems	Ecosystem	Varies	 Varies



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Silicon Labs Matter Solutions

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HARDWARE

Field-proven SoCs and modules for Wi-Fi, 15.4 with Bluetooth Best-in-class radio performance, low power, and wireless co-ex Secure Vault security and Al/ML



for Wi-Fi, 15.4 with Bluetooth Best-in-class radio performance, low power, and wireless co-ex Secure Vault security and Al/ML Support for all Matter device types, including border routers and bridges

GitHub-based multiprotocol software platform with OTA

WiFi[°] Bluetooth[°] THREAD



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SOFTWARE

Support for all Matter device types, including border routers and bridges

GitHub-based multiprotocol software platform with OTA





TOOLS

Advanced development hardware, reference designs, and tools

Ease of use through Simplicity Studio & GSDK integration

Windows Development Support

Wi Fi Bluetooth THREAD



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CERTIFICATION

Inheritance for Bluetooth, Thread and Wi-Fi certification Proven Matter certification Ecosystems certification

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Recommended Matter Solutions



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Matter Selector Guide







Choosing the Right Products

MATTER 1.0/1.1					
ر آ Controllers / Bridges	بَنْخِ: آتَ الله Lighting, Switches, Plugs	TVs (MG21)	Sensors	Locks, Shades	(⊗ T) HVAC Controls
MG24	SiWx917	MG24	SiWx917	SiWx917	SiWx917
 High-perf Thread RCP, BLE co-ex Low power, Long battery life Long-range, +20 dBm TX AI/ML High PSA L3 security 	 Single-SoC Matter Solution Lowest-power Wi-Fi 6 for battery devices BLE co-ex Best Wi-Fi IoT security AI/ML CA Title 20 	 High-perf Thread RCP, BLE co-ex Long-range, +20 dBm TX Al/ML High PSA L3 security 	 Single-SoC Matter Solution Lowest-power Wi-Fi 6 for battery devices BLE co-ex AI/ML Best Wi-Fi IoT security ULP Sensor Hub 	 Single-SoC Matter Solution Lowest-power Wi-Fi 6 for battery devices Al/ML Best Wi-Fi IoT security ULP Sensor Hub 	 Single-SoC Matter Solution Lowest-power Wi-Fi 6 for battery devices Al/ML Best Wi-Fi IoT security ULP Sensor Hub
 Thread RCP for gateways BLE co-ex & Multiprotocol Long range, +20 dBm TX Low power, long battery life High PSA L3 security 	• CA fille 20	 Thread RCP for gateways BLE co-ex & Multiprotocol Long range, +20 dBm TX High PSA L3 security 	• 16-bit ADC	Single-SoC Matter Solution Wi-Fi 6 for line powered devices BLE co-ex Best Wi-Fi IoT security	Single-SoC Matter Solution Wi-Fi 6 for line devices BLE co-ex Best Wi-Fi IoT security
MR21	SiWx915	MR21	MG24	RS9116	RS9116
MR21 Thread RCP for gateways BLE co-ex Low power, long battery life Long range, 20 dBm TX Secure Vault Mid	SiWx915 • Wi-Fi 6 for line devices • Single-SoC Matter Solution • BLE co-ex • Best Wi-Fi IoT security	MR21 • Thread RCP for gateways • BLE co-ex • Long range, +20 dBm TX • Secure Vault Mid	MG24 • Thread SoC for battery devices • Low power, Long battery life • Long-range, +20 dBm TX • BLE co-ex • Al/MI	RS9116 • Lowest power Wi-Fi 4 & BLE co-ex for battery devices • Matter NCP Solution • Comprehensive networking stack	RS9116 Lowest power Wi-Fi 4 & BLE co-ex for battery devices Matter NCP Solution Comprehensive networking stack
MR21 • Thread RCP for gateway s • BLE co-ex • Low power, long battery life • Long range, 20 dBm TX • Secure Vault Mid	SiWx915 • Wi-Fi 6 for line devices • Single-SoC Matter Solution • BLE co-ex • Best Wi-Fi IoT security • CA Title 20	MR21 • Thread RCP for gateways • BLE co-ex • Long range, +20 dBm TX • Secure Vault Mid	MG24 Thread SoC for battery devices Low power, Long battery life Long-range, +20 dBm TX BLE co-ex Al/ML High PSA L3 security High provide a Society	RS9116 • Lowest power Wi-Fi 4 & BLE co-ex for battery devices • Matter NCP Solution • Comprehensiv e networking stack WF200	RS9116 Lowest power Wi-Fi 4 & BLE co-ex for battery devices Matter NCP Solution Comprehensive networking stack WF200
MR21 • Thread RCP for gateway s • BLE co-ex • Low power, long battery life • Long range, 20 dBm TX • Secure Vault Mid	SiWx915 • Wi-Fi 6 for line devices • Single-SoC Matter Solution • BLE co-ex • Best Wi-Fi IoT security • CA Title 20 MG24 • Thread SoC for battery devices • Low power, Long battery life • Long-range, +20 dBm TX • BLE co-ex	MR21 • Thread RCP for gateways • BLE co-ex • Long range, +20 dBm TX • Secure Vault Mid	MG24 • Thread SoC for battery devices • Low power, Long battery life • Long-range, +20 dBm TX • BLE co-ex • Al/ML • High PSA L3 security • High accuracy ADC	RS9116 • Lowest power Wi-Fi4 & BLE co-ex for battery devices • Matter NCP Solution • Comprehensive networking stack WF200 • Low-power Wi-Fi4 only for battery & line devices • Matter RCP Solution • MCU offload • Small 4 x 4 mm	RS9116 • Lowest power Wi-Fi 4 & BLE co-ex for battery devices • Matter NCP Solution • Comprehensive networking stack WF200 • Low-power Wi-Fi 4 only for battery & line devices • Matter RCP Solution • MCU offload • Small 4 x 4 mm
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Choosing the Right Products

FUTURE DEVICE TYPES					
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Energy Management	Cameras	White Goods	Sensing Controls, Detectors	Robot Vacuums	Access Points
SiWx917	SiWx917	SiWx917	SiWx917	SiWx917	MG24
 Lowest-power Wi-Fi 6 for battery devices Single-SoC Matter Solution Al/ML Best Wi-Fi IoT security ULP Sensor Hub 	 Lowest-power Wi-Fi 6 for battery devices 86 Mbps Single-SoC Matter Solution BLE co-ex AI/ML Best Wi-Fi IoT security ULP Sensor Hub 	 Lowest-power Wi-Fi 6 for battery devices 86 Mbps Single-SoC Matter Solution BLE co-ex AI/ML Best Wi-Fi IoT security ULP Sensor Hub 	 Lowest-power Wi-Fi 6 for battery devices Single-SoC Matter Solution BLE co-ex Al/ML Best Wi-Fi IoT security ULP Sensor Hub 16-bit ADC 	 Lowest-power Wi-Fi 6 for battery devices Single-SoC Matter Solution BLE co-ex AI/ML Best Wi-Fi IoT security 	 High-perf Thread RCP, BLE co-ex Low power, Long battery lif e Long-range, +20 dBm TX AI/ML High PSA L3 security
WI-FIG for line devices Single-SoC Matter Solution	SiWx915	SiWx915	MG24	SiWx915	MG21
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battery devices Matter NCP Solution	RS9116	RS9116	High accuracy ADC	MG24	MR21
Matter NCP Solution Comprehensive networking stack 72 Mbps WF200 Low-power Wi-Fi 4 only for battery &	 Lowest power Wi-Fi 4 & BLE co-ex for battery devices Matter NCP Solution Comprehensive networking stack 72 Mbps 	 Lowest power Wi-Fi 4 & BLE co-ex for battery devices Matter NCP Solution Comprehensive networking stack 72 Mbps 		 Thread SoC for battery devices Low power, Long battery life Long-range, +20 dBm TX BLE co-ex AI/ML High PSA L3 security 	 Thread RCP for gateways BLE co-ex Low power, long battery life Long range, 20 dBm TX Secure Vault Mid
Matter RCP Solution	WF200	WF200			
 MCU offload 72 Mbps Small 4 x 4 mm MG24 Thread SoC for battery devices Low power, Long battery life Long-range, +20 dBm TX BLE co-ex Al/ML High PSA L3 security High accuracy ADC 	 Low-power Wi-Fi 4 only for battery & line devices Matter RCP Solution MCU offload 72 Mbps Small 4 x 4 mm 	 Low-power Wi-Fi 4 only for battery & line devices Matter RCP Solution MCU offload 72 Mbps Small 4 x 4 mm 			

Explorer Kit

- Low-cost board
- On-board debugger
- mikroBus socket
- Qwiic connector

Dev Kit

- Low-cost development board
- On-board debugger
- Signal breakouts
- On-board sensors

Kit contents

1 x board







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Starter Kit / Pro Kit

- Modular development platform
- Advanced development
- RF measurements
- Energy profiling
- External device debug
- Ethernet for large network test

Kit contents

- WSTK main board(s)
- Radio board(s)



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- Radio board
- •Optimized RF layout and performance
- Ideal for RF measurements
- SoC, PCB modules and SiPs
- Uses existing WSTK boards
- Uses existing software tools

Kit contents

1 x Radio board



https://www.silabs.com/wireless/matter?tab=kits



Matter over Wi-Fi Development Kits

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Matter over Wi-Fi Development Kits

RS9116 Kits

- Modular development platform
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- Current measurements
- · Serial interface to host

Kit contents

- Baseboard
- Wireless daughter card



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Kit contents

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https://www.silabs.com/wireless/matter?tab=kits

SiWx917 Kits - Announced

- EXP and Radio board options
- Optimized RF layout and performance
- · Ideal for RF measurements
- Kit contents
 - Radio Board Kit (SoC Mode)
 - 1 x Radio board
 - 1 x Main Board
 - EXP Kit (NCP Mode)
 - 1 x EXP board





Contact Sales for availability https://www.silabs.com/about-us/contact-sales





Matter GitHub and GSDK Offerings

	ltem	CSA	€€CitHubStable Silicon Labs Matter Source on GitHub	Studio & GSDK MatterSilicon Labs Simplicity Studio and GSDK support
Development	Thread Part Support	Yes	Yes	Yes
	Wi-Fi Part Support	Yes	Yes	Yes (Studio)
	Developer Platforms	MacOS, Linux	MacOS, Linux	Windows, MacOS Linux
	Studio Tools Support		Limited	Full
	Memory Optimizations		Limited	Full
	Core Protocol Stack	Source Code	Source Code	Pre-built Compliant Library
QA	Production Testing		Yes	Yes
	Performance Testing		Limited	Yes
Certification	Thread Certified Libraries	Yes	Yes	Yes
	Matter Compliance Testing		Yes	Yes
Support	Application Engineering Support	Limited	Full	Full

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The Development Journey

The Matter Developer Journey web page is planned to be available on Q3/2023.

The Silicon Labs Connectivity Lab build-up is in progress in 2023.





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- 1. Simplicity Studio the IDE with the simplest, most complete Matter dev experience
- 2. Silicon Labs Matter Github –Matter SDK & stacks tested and optimized for the best performance on Silicon Labs hardware – Use any IDE!
- Unify SDK Multiprotocol SW development platform for Matter Bridge and gateways

Si mplicity



Works with Apple HomeKit

Developer Journeys

Before starting, go to

webpage, and learn

how the process goes

our Ecosystem

end-to-end!

o works with alexa

Learn about our Kits for Matter!



Studio 5 Unify SDK

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Matter over Thread Demo







Summary



Matter Resources



Website

- Silicon Labs Matter Web Page
 - Provides Matter Info, Getting Started, Demos, Hardware, Kits and Boards



Training

- Matter Tech Talks
- <u>Works With 2022 –</u> <u>Matter Track On-Demand</u>



Whitepapers

- <u>Foundations of Matter and Smart Home</u> <u>Ecosystems</u>
- <u>Matter Security</u>
- <u>Matter Certification</u>



Silicon Labs Matter Software

- Silicon Labs Matter Github
- <u>Simplicity Studio</u>



Silicon Labs Community

Matter Forum

Summary

• Smart Home today has been hindered by complexities for manufacturers, retailers, and consumers

- Matter is released now to simplify the Smart Home
- Wi-Fi and Thread are supported natively for Matter
- Bridging exists for other networks like Zigbee and Z-Wave
- Matter certification ensures interoperability and security
- Key ecosystems are ready for development and deployment
- Silicon Labs hardware, software, tools and certification experience helps speed your time to market







Thank You