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SILICON LABS | K matter

Matter SoC and Module Selector Guide

Selecting the Right Matter Device for Your Applications

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How Silicon Labs' **Portfolio is Ideal for** Matter Development



Hardware

Single-SoC Matter solutions

- High-performance RF enables reliable connectivity in every room of the house and beyond
- **Ultra-low-power** Extend battery life and recharging interval
- Fully integrated MCU Simplify product design, reduce BoM costs, improve profits
- RF-Certified Modules Accelerate time-to-market by up to 9 months



Secure Programming

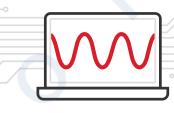
Securely program Matter certificates, security settings, keys, and flash software

- Prevent counterfeiting and IP theft
- **Simplify** the creation of Matter QR codes
- **Reduce** manufacturing risks and costs
- Accelerate production time

Software

Pre-certified and tested Matter, Wi-Fi, Thread, and Bluetooth software

- Pre-certified and tested Matter, Wi-Fi, Thread, and Bluetooth software
- **Full compliance** and maximum performance on Silicon Labs hardware
- Reduce time and costs of development and certification
- Improve product quality
- The best SDK support with 10 years of longevity



Security

Fully Matter-compliant security

- Secure Vault covers all mandatory, recommended, and optional security requirements
- **PSIRT** offers constant monitoring and rectification of vulnerabilities (Matter requirement)
- **MG24** The highest PSA Level 3 certification
- SiWx917 The best-in-class IoT security in Wi-Fi

Developer Journey

Most comprehensive end-to-end guide for Matter

- Reduces your Matter learning curve to get you to market faster
- Step by step guide from learning to production
- Includes information on Ecosystems steps along the journey
- Provides guidance on hardware including ICs, Modules, and development hardware

Most Complete

Most Complete Go-to-Market Solution for Matter

- Enhance user experience with high-performance wireless and ultra-low-power
- Matter-compliant security to protect devices, users, and brand reputation
- Develop faster and reduce costs with community support 24/7, developer journeys, and documentation



Wireless Hardware for Matter



Performance

Improve overall product quality, enhance user experience, reduce warranty returns, and minimize support costs through reliable wireless connectivity in every room of the house (and beyond)



Battery Life

Score better on product reviews and enhance user experience with extended battery life and improved recharging intervals on your devices

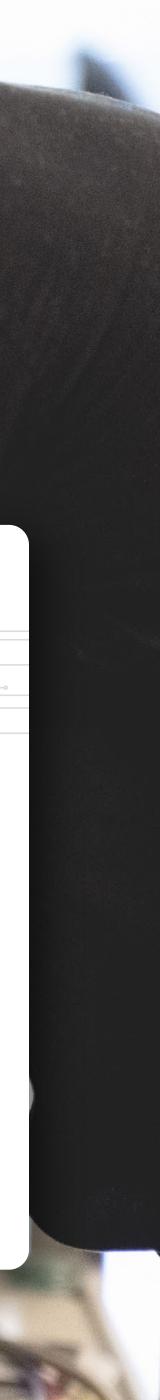
Security

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Stay protected with the industry's most advanced IoT security solution, Secure Vault, which is fully compliant with the Matter specification

Costs & Simplicity

Simplify product designs, reduce BoM costs, and improve your profits using Silicon Labs Matter solutions based on single chip SoCs and modules



Pre-Certified Wireless Software for Matter

Our SDKs provide pre-certified and tested wireless protocol stacks for Wi-Fi, Thread, Bluetooth LE, and Matter application layer firmware.

Silicon Labs wireless protocol stacks are tested and quality assured for full compliance, stability, and maximum performance to:



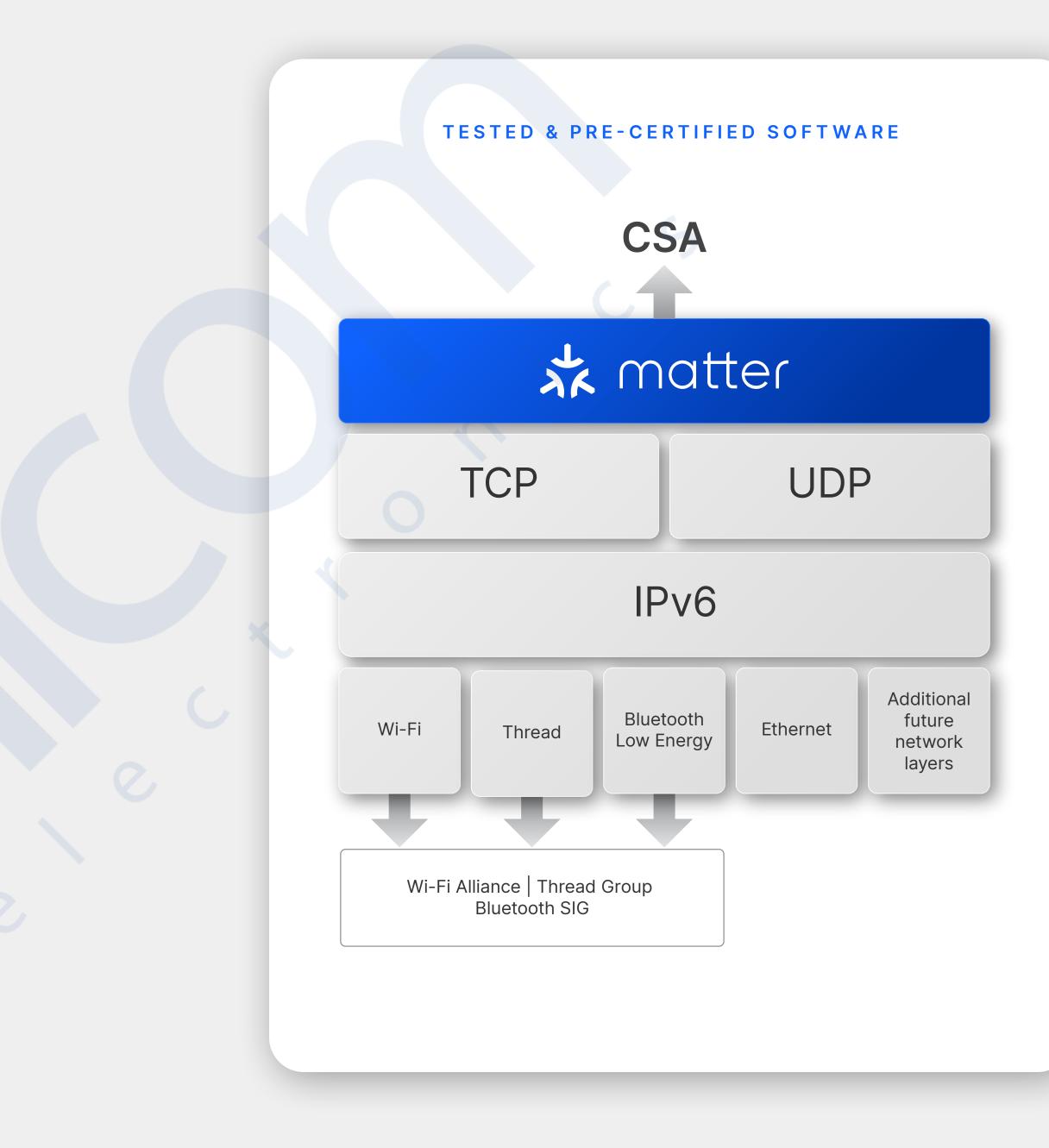
Increase overall product quality



Reduce development time and costs

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Ensure that devices can pass final certifications on the first go





Matter Security Solutions



Fully Compliant

Secure Vault, PSIRT, and CPMS provide the functions needed to cover all mandatory, recommended, and optional security requirements of the Matter specification in one package



Most Advanced

Featuring advanced IoT security solutions, our MG24 supports the highest PSA Level 3 certification and SiWx917 features the IoT security

Secure Programming



Ready to Ship

With CPMS, securely program all Matter certificates, security settings, keys, applications, and bootloaders. Onboarding Payload is provided for the QR code, so Matter products are ready to ship



Accelerate Production

Instead of separate programming and flashing (in-house/CM), Silicon Labs programs SoCs during production and can deliver Matter-related programming as part of the process; reduces risk, cost, and time-to-market

Most Complete Matter Development Solution



Learn in Advance

Access the most comprehensive Matter developer journeys for popular ecosystems like Google, Amazon, Apple, and SmartThings; these journeys help development teams learn the entire process in advance to avoid common mistakes and plan resources wisely



Leverage development kits for all Matter use cases: Matter over Wi-Fi, Matter over Thread, Border Router, Matter Bridge, and more

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Always Up-to-Date

Continuously monitor vulnerabilities and receive timely security updates. With us, you get the best support service in the industry, with up to 10 years of longevity for software and security

Programmable

Safely program Matter certificates, keys, security settings, applications, and bootloaders on wireless SoCs to reduce risks, save costs, and accelerate production

Reduce Risks

Wireless SoCs are delivered to the CM secured and programmed with an encrypted SW image, preventing counterfeiting and IP theft



Maximize Security

Achieve maximum protection with Silicon Labs Secure Vault, which is broadly recognized as the most advanced IoT security solution and is fully compliant with the Matter specification

Kits for all Use-cases

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Tools for all

No Code to Pro Code, our Simplicity Studio can meet the demands of an RF specialist with no embedded code experience to a team of embedded developers



Advanced Development

Key features like our Packet Trace Interface for advanced network debug is critical for mesh networks like Matter over Thread, while our Energy Profiler can help deliver the lower power solution, extending battery life of both our Matter over Thread and Matter over Wi-Fi solutions



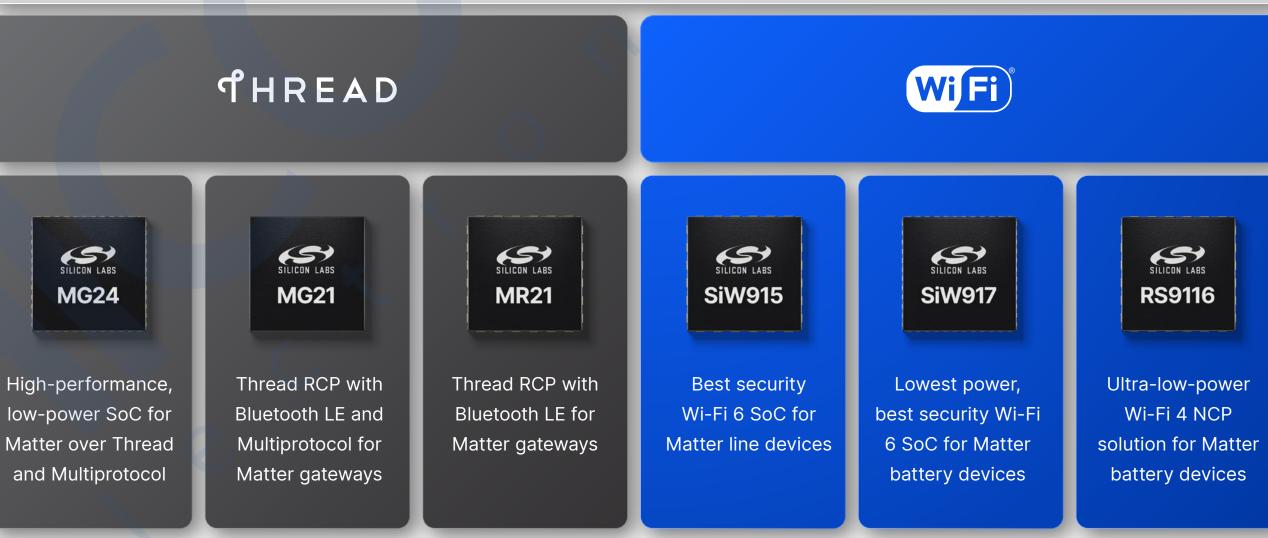
High-Performance, Low-Power Wireless SoCs for **Thread and Wi-Fi**

- Lowest power on the market for Wi-Fi
- Industry-leading wireless characteristics (TX power, RX sensitivity, etc.)
- Single-SoC Matter solutions with Bluetooth LE co-existence
- Integrated wireless MCUs with many add-ons: AI/ML, Sensor Hub, high-accuracy ADC, etc.
- Most advanced security with PSA Level 3 certification for Matter, Thread, Bluetooth LE

One of the first design considerations you'll encounter is what networking technologies best fit your application. Based on this, you then can decide if your project is best suited for a System-on-Chip (SOC) paradigm or a Network Coprocessor (NCP) paradigm and, for the NCP, what kind of serial communication to use for controlling the coprocessor. This design decision is critical because it will determine the requirements and constraints of both the software and the hardware.

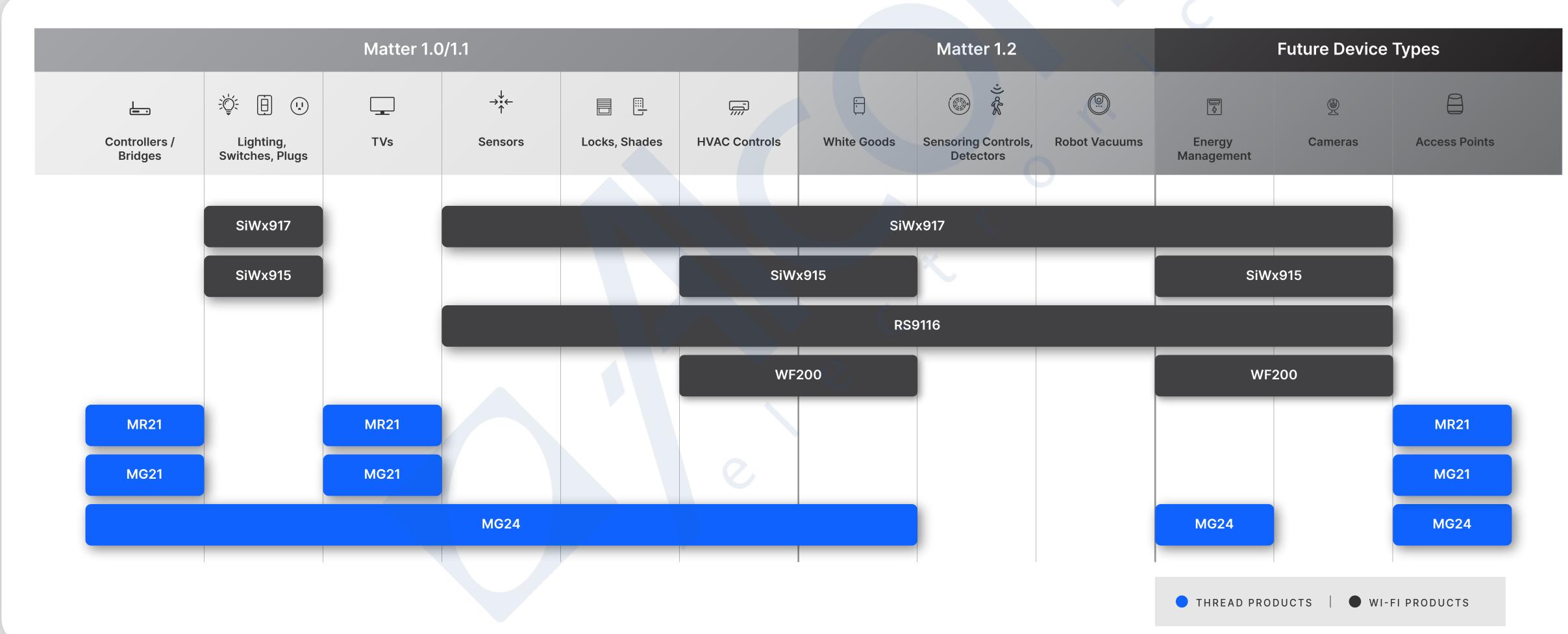
For more information on how to approach this decision, you can read our Software Design Fundamentals User Guide.

x matter





Current and Future Application Support



Silicon Labs Thread Solutions





Reliable, low-latency, and long-range Thread connectivity for SoC and RCP solutions

- +19.5 dBm output power
- Increased RF sensitivity

Single-SoC Matter solution

Integrated Bluetooth LE Co-ex for easy commissioning

Matter-compliant security

 Secure Vault[™] High supports the Matter hardware and software security requirements with PSA/SESIP Certification Level 3

Higher accuracy for industrial sensors

• 20-bit ADC for more granular output values

Extend product lifetime

 Large memory facilitating more features, smooth OTA updates, and longer product lifetime

Reduce BOM and PCB footprint while simplifying design

Faster AI/ML processing with lower energy consumption

 Integrated AI/ML hardware accelerator enables 2-4X faster ML inferencing and up to 6X lower power compared to non-accelerated processors (depends on the algorithm and model)

Memory - Flash 1536 kB, RAM 256 kB



High-performance and reliable Thread RCP solution for Matter gateways

- +20 dBm output power
- High RF sensitivity

Multiprotocol

- Bluetooth LE co-ex for easy device commissioning
- Zigbee

Improved Wi-Fi blocking performance

Prevent interference by filtering out Wi-Fi signals

Secure Vault[™] High

• The most advanced IoT security with PSA/SESIP Level 3

Memory — Flash 1024 kB, RAM 96 kB



High-performance and reliable Thread RCP solution for Matter gateways

- +20 dBm output power
- Increased RF sensitivity

Multiprotocol

Bluetooth LE co-ex for easy device commissioning

Improved Wi-Fi blocking performance

• Prevent interference by filtering out Wi-Fi signals

Secure Vault[™] Mid

• The most advanced IoT security with PSA/SESIP Level 2

Memory — Flash 512 kB, RAM 64 kB



Silicon Labs Wi-Fi **Solutions**





Lowest-power Wi-Fi 6 SoC battery-powered devices

Minimal battery replacement and recharging hassle for users

- Always-on cloud connectivity with minimal power
- Doubling the Wi-Fi 6 battery life compared to the nearest competing SoCs

Improved user experience with superior wireless performance and easy device commissioning

Bluetooth LE co-existence for commissioning

Devices, users, and brand are protected from cyber threats

Best-in-Class Security for Wi-Fi

Fully integrated wireless MCU

- Dual core with an application-dedicated ARM core
- High memory, PSRAM
- AI/ML, ultra-low-power sensor hub

Maximum Wi-Fi gateway compatibility

- Independently tested
- Reduce user frustration, customer care costs, and improve brand loyalty
- Comprehensive networking stack (TCP/IP, HTTP/HTTPs, MQTT, etc.)

Seamless integration with Silicon Labs development solutions

• Simplicity Studio 5 streamlines the development process, reducing costs and time-to-revenue

SILVERN LABS SIVVX915

Energy-efficient Wi-Fi 6 SoC for line-powered devices

Improve user experience with exceptional wireless performance and easy device commissioning

- Always-on cloud connectivity
- Wi-Fi 6 for improved connectivity in high-density environments
- Better coverage for devices in every room of the house and beyond (2.4 GHz)
- Bluetooth LE co-ex for easy commissioning

Protect devices, users, brand, and revenue from cyber-threats

Best-in-class security for Wi-Fi

Maximum Wi-Fi gateway compatibility, independently tested

 Reduce user frustration, customer care costs, and improve brand loyalty

Seamless integration with Silicon Labs development solutions

 Simplicity Studio 5 streamlines the development process, reducing cost and time-to-revenue



Ultra-low-power for Wi-Fi 4 on battery devices

55 μA stand-by associated current at 1 sec

NCP Matter solutions only

Integrated Bluetooth LE Co-ex for easy commissioning

High-performance Wi-Fi connectivity

+20 dBm TX, -98 dBm RX, 72 Mbps bandwidth with less power than competitors

Maximum Wi-Fi access point compatibility

 Independently tested across 100s of Wi-Fi access points for exceptional interoperability

Enterprise-level security

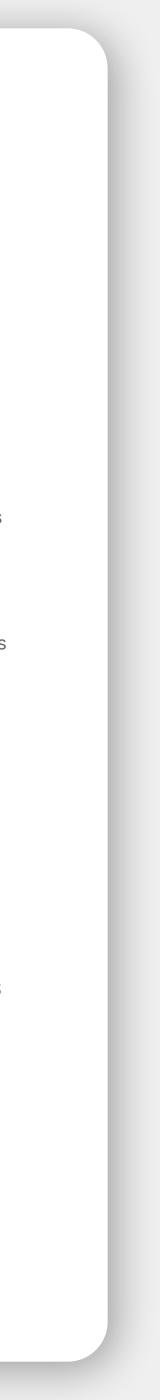
TLS 1.0, TTLS, PEAP, WPA2/WPA3

Pre-certified stack by Wi-Fi Alliance

• Making your end-product certification easier (Est. Q1 2023)

Comprehensive networking stack

• Offloads the main MCU with TCP/IP (IP v4), SSL 3.0/TLS 1.2, HTTP/HTTPS, Web sockets, DHCP, MQTT Client



Matter 1.0/1.1 Device Types

Controllers / Bridges	َنَيْ اللَّهُ ا Lighting, Switches, Plugs	TVs
MG24 High-perf Thread RCP, Bluetooth LE co-ex Low power, long battery life Long-range, +19.5 dBm TX Al/ML High PSA L3 security	SiWx917 Single-SoC Matter solution Lowest-power Wi-Fi 6 for battery devices Bluetooth LE co-ex Best Wi-Fi IoT security AI/ML CA Title 20	MG24 High-perf Thread RCP, Bluetooth LE co-ex Long-range, +19.5 dBm TX AI/ML High PSA L3 security
MG21		MG21

Thread RCP for gateways Bluetooth LE co-ex & Multiprotocol Long range, +20 dBm TX Low power, long battery life High PSA L3 security

MR21

Thread RCP for gateways Bluetooth LE 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 Bluetooth LE co-ex Best Wi-Fi IoT security CA Title 20

Thread RCP for gateways Bluetooth LE co-ex & Multiprotocol Long range, +20 dBm TX High PSA L3 security

MR21

Thread RCP for gateways Bluetooth LE co-ex Long range, +20 dBm TX Secure Vault Mid

Sensors

SiWx917

Single-SoC Matter solution Lowest-power Wi-Fi 6 for battery devices Bluetooth LE co-ex AI/ML Best Wi-Fi IoT security ULP Sensor Hub 16-bit ADC

MG24

Thread SoC for battery devices Low power, long battery life Long-range, +19.5 dBm TX Bluetooth LE co-ex AI/ML High PSA L3 security High-accuracy ADC

Locks, Shades

SiWx917 Lowest-power Wi-Fi 6 for battery devices Single-SoC Matter solution Bluetooth LE co-ex AI/ML Best Wi-Fi IoT security

SiWx915 Single-SoC Matter solution Wi-Fi 6 for line devices Bluetooth LE co-ex Best Wi-Fi IoT security

RS9116

Lowest power Wi-Fi 4 & Bluetooth LE 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 × 4 mm

MG24

Thread SoC for battery devices Low power, Long battery life Long-range, +19.5 dBm TX Bluetooth LE co-ex AI/ML High PSA L3 security

, , , , **HVAC** Controls

SiWx917 Single-SoC Matter solution Lowest-power Wi-Fi 6 for battery devices AI/ML Best Wi-Fi IoT security **ULP Sensor Hub**

SiWx915

Single-SoC Matter solution Wi-Fi 6 for line devices Bluetooth LE co-ex Best Wi-Fi IoT security

RS9116

Lowest power Wi-Fi 4 & Bluetooth LE 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 × 4 mm

MG24

Single-SoC Matter/Thread solution Low power, long battery life Long-range, +19.5 dBm TX Bluetooth LE co-ex AI/ML High PSA L3 security High-accuracy ADC

Matter 1.2

White Goods SiWx917 SiWx917 Lowest-power Wi-Fi 6 for battery devices Lowest-power Wi-Fi 6 for battery devices 86 Mbps Single-SoC Matter solution Bluetooth LE co-ex AI/ML AI/ML Best Wi-Fi IoT security ULP Sensor Hub q SiWx915

Wi-Fi 6 for line devices 86 Mbps Single-SoC Matter solution Bluetooth LE co-ex Best Wi-Fi IoT security

RS9116

Lowest power Wi-Fi 4 and Bluetooth LE co-ex for battery devices Matter NCP solution Comprehensive networking stack 72 Mbps

WF200

Low-power Wi-Fi 4 only for battery and line devices Matter RCP solution MCU offload 72 Mbps Small 4 × 4 mm

Robot Vacuums

Single-SoC Matter solution Bluetooth LE co-ex Best Wi-Fi IoT security

RS9116

Thread SoC for battery devices Low power, long battery life Long-range, +20 dBm TX Bluetooth LE co-ex AI/ML High PSA L3 security

Sensing Controls, Detectors

SiWx917

Lowest-power Wi-Fi 6 for battery devices Single-SoC Matter solution Bluetooth LE co-ex AI/ML Best Wi-Fi IoT security **ULP Sensor Hub** 16-bit ADC

MG24

Thread SoC for battery devices Low power, long battery life Long-range, +19.5 dBm TX Bluetooth LE co-ex AI/ML High PSA L3 security High-accuracy ADC

THREAD PRODUCTS | • WI-FI PRODUCTS

Future Device Types

☐. � **Energy Management**

SiWx917

Lowest-power Wi-Fi 6 for battery devices 86 Mbps Single-SoC Matter solution Bluetooth LE co-ex AI/ML Best Wi-Fi IoT security ULP Sensor Hub

SiWx915

Wi-Fi 6 for line devices 86 Mbps Single-SoC Matter solution Bluetooth LE co-ex Best Wi-Fi loT security

RS9116

Lowest power Wi-Fi 4 & Bluetooth LE co-ex for battery devices Matter NCP solution Comprehensive networking stack 72 Mbps

WF200

Low-power Wi-Fi 4 only for battery and line devices Matter RCP solution MCU offload 72 Mbps Small 4 × 4 mm

٩ Cameras

SiWx917 Lowest-power Wi-Fi 6 for battery devices 86 Mbps Single-SoC Matter solution Bluetooth LE co-ex AI/ML Best Wi-Fi IoT security ULP Sensor Hub

SiWx915 Wi-Fi 6 for line devices 86 Mbps Single-SoC Matter solution Bluetooth LE co-ex Best Wi-Fi IoT security

RS9116

Lowest power Wi-Fi 4 & Bluetooth LE co-ex for battery devices Matter NCP solution Comprehensive networking stack 72 Mbps

WF200 Low-power Wi-Fi 4 only for battery and line devices Matter RCP solution MCU offload 72 Mbps Small 4 × 4 mm

Access Points

MG24

High-perf Thread RCP, Bluetooth LE co-ex Low power, long battery life Long-range, +19.5 dBm TX AI/ML High PSA L3 security

MG21

Thread RCP for gateways Bluetooth LE co-ex and Multiprotocol Long range, +20 dBm TX Low power, long battery life Secure Vault High

MR21

Thread RCP for gateways Bluetooth LE co-ex Low power, long battery life Long range, 20 dBm TX Secure Vault Mid

HARDWARE COMPARISON FOR THREAD

MG24 vs. MG21 vs. **MR21**

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MG24

Protocol Support

Frequency Bands 2.4 GHz Cortex-M3 Core

Max Flash

Max RAM

Security

Rx Sensitivity (15.4) -105.4 dBr

Rx Sensitivity (Bluetooth LE 1Mbps) -97.6 dBm

Active Current 33.4 µA/M

Sleep Current (EM2, 16 kB ret) 1.3 µA

TX Current @ +0 dBm (2.4 GHz) 5.0 mA

TX Current @ +10 dBm (2.4 GHz) 19.1 mA

TX Current @ +20 dBm (2.4 GHz) 156.8 mA

> RX Current (802.15.4) 5.1 mA

RX Current (Bluetooth LE 1 Mbps) 4.4 mA

Serial Peripherals USART, EU

Analog Peripherals 20-bit ADC

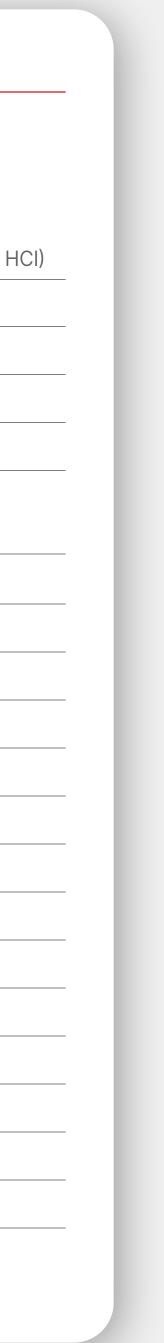
Other Die Temp

Operating Voltage 1.71 to 3.8

GPIO 26, 28/32

Package

MG24	MG21	MR21
RCP SoC - Dynamic Multiprotocol w/ Bluetooth LE Supports OTA with internal flash	Multiprotocol, Proprietary Bluetooth, Thread, and Zigbee (NCP and SoC) Matter (RCP only)	Bluetooth (HCI) OpenThread (RCP multi-PAN) Zigbee1 (RCP - requires separate license for Zigbee stack) Matter over Thread (RCP multi-PAN + BT H
2.4 GHz	2 .4 GHz	2.4 GHz
Cortex-M33 (78 MHz)	Cortex-M33 (80 MHz)	Cortex-M33 (80 MHz)
1536 kB	1024 kB	512 kB
256 kB	96 kB	64 kB
Secure Vault Mid Secure Vault High	Secure Vault Mid Secure Vault High	Secure Vault Mid
-105.4 dBm	-104.5 dBm	-104.3 dBm
-97.6 dBm	-97.5 dBm	-97.1 dBm
33.4 µA/MHz	59.8 µA/MHz	59.7 µA/MHz
1.3 µA	4.5 μΑ	25 μΑ
5.0 mA	9.3 mA	9.3 mA
19.1 mA	34 mA	60.8 mA (+20 dBm OPN)
156.8 mA	185 mA	186.5 mA
5.1 mA	9.5 mA	9.5 mA
4.4 mA	8.8 mA	8.8 mA
USART, EUSART, I2C	USART, I2C	USART
20-bit ADC, ACMP, VDAC	12-bit ADC, ACMP	
Die Temp Sensor	Die Temp Sensor	Die Temp Sensor
1.71 to 3.8 V	1.71 to 3.8 V	1.71 to 3.8 V
26, 28/32	20	20
5×5 QFN40, 6×6 QFN48 12.9×15.0 PCB Module	4×4 QFN32	4×4 QFN32



HARDWARE COMPARISON FOR WI-FI

917 vs. 915 vs. **RS9116**



Parameter SiWx917

Sampling / In-Production

RF Bands (GHz)

Wi-Fi Generation / Bandwidth

Bluetooth Support Bluetooth LE

RCP, NCP, S Modes of Operation

Temperature Range

PSRAM, AI/ML

Embedded SRAM and FLASH

NWP Type / Speed (MHz)

MCU Type / Speed (MHz)

Security

Max GPIO (GPIO Multiplexer)

7×7 QFN84, IC Pkg

Power Modes

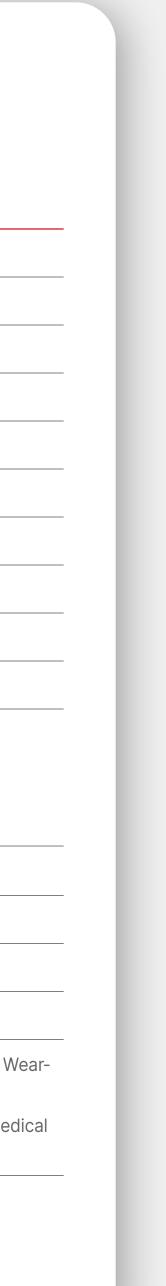
WPA2/WPA3

Ultra-Low-P

Target Applications

WLAN Max Tx Power / Rx Sens 21 dBm / -98

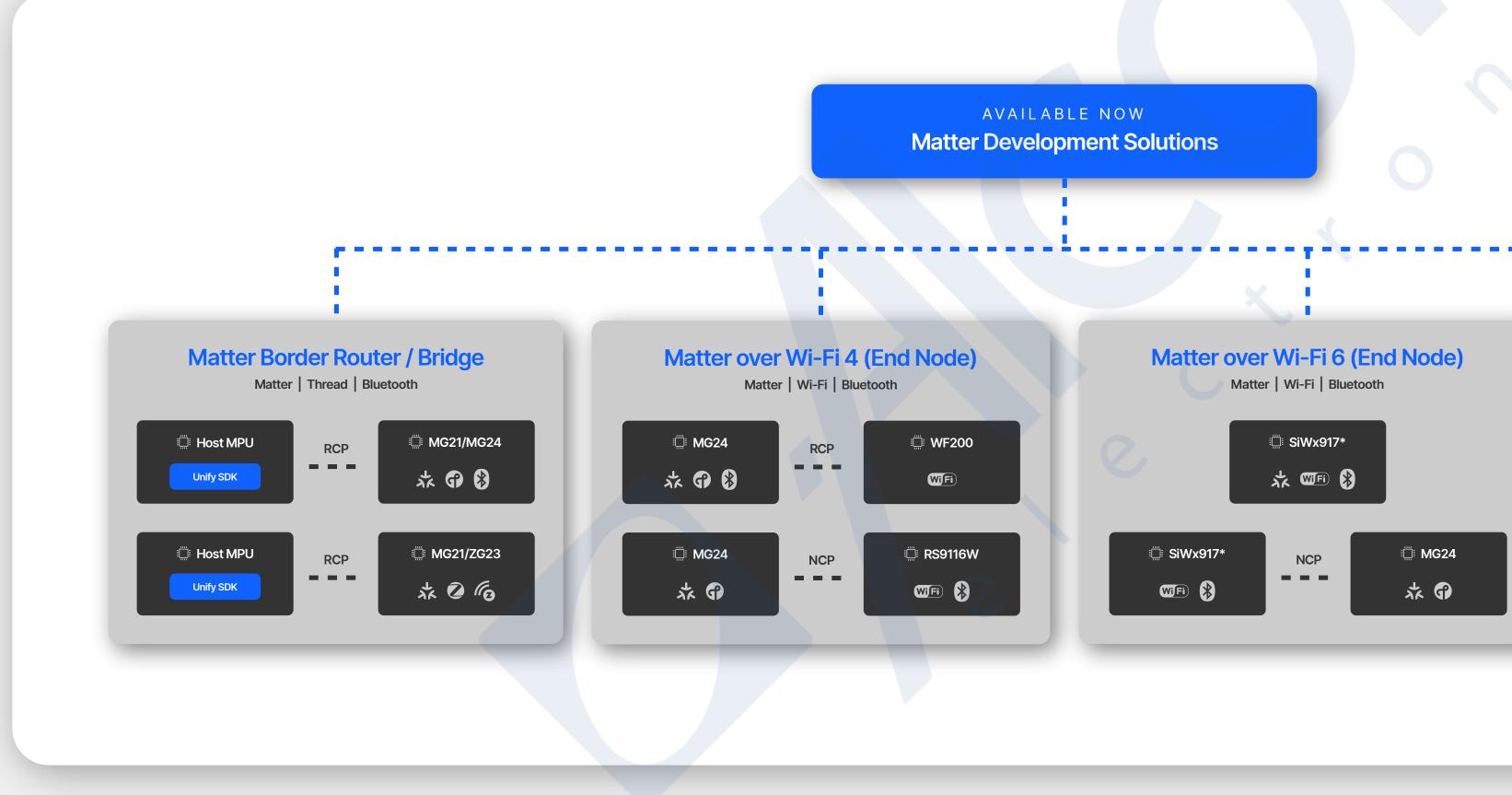
SiWx917	SiWx915	RS9116
Sampling now, Q4 2023	Sampling/IP: Q1, 2024	In production
2.4 GHz	2.4 GHz	2.4 GHz, 5 GHz (Modules)
Wi-Fi 6 / 20 MHz (OFDMA, MU-MIMO, TWT)	Wi-Fi 6 / 20 MHz (OFDMA, MU-MIMO, TWT)	Wi-Fi 4 / 20 MHz
Bluetooth LE 5.1	Bluetooth LE 5.1	BT (SPP, A2DP), Bluetooth LE 5
RCP, NCP, SoC	RCP, NCP, SoC	RCP, NCP
-40 to 105° C	-40 to 85° C	-40 to 85° C
Yes	Νο	No
672 kB and up to 8 MB; opt ext. flash	672 kB and up to 4 MB; opt ext. flash	384 kB and 4 MB
TA-4T / 160 MHz	TA-4T / 160 MHz	TA-4T / 160 MHz
Cortex M4F / 180 MHz	Cortex M4F / 180 MHz	N/A
WPA2/WPA3, SSL/TLS 1.3	WPA2/WPA3, SSL/TLS 1.3	WPA2/WPA3, SSL/TLS 1.2
PSA-L2	PSA-L2	
TRNG, PUF, Secure Boot, Secure OTA, Secure Zone,	TRNG, PUF, Secure Boot, Secure OTA, Secure Zone	
Secure XIP (AES-XTS), Advanced Crypto	(TEE), Secure XIP (AES-XTS), Advanced Crypto	
46	22	N/A
7×7 QFN84, PCB Module	6×6 QFN52, PCB Module	7×7 QFN84, SiP and PCB Modules
21 dBm / -98 dBm	21 dBm / -98 dBm	20 dBm / -98 dBm
Ultra-Low-Power	Low-Power	Ultra-Low-Power
Door Locks, HVAC, Portable	Appliances, HVAC, Portable Medical, Cameras,	Speakers, Door Locks, HVAC, Portable Medical, We
Medical, Sensors, Cameras, Switches,	Switches, Power Tools, Asset Monitoring,	ables, Power Tools,
Power Tools, Asset Monitoring, Fleet Management, Clinical Medical, Metering	Fleet Management, Clinical Medical, Metering	Asset Monitoring, Fleet Management, Clinical Med



Solutions for All Matter Use-Cases

Development solutions

- Matter over Wi-Fi
- Matter over Thread
- OpenThread Border Routers
- Matter Bridge for Zigbee and Z-Wave



for	all	Matter	use-cases:
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Solutions for Matter Over Thread



Pro Kit EFR32xG24

Pro Kit with the MG24 SoC and BRD4187C Radio Board is THE development tool for Matter innovators! All tools for developing wireless applications. Enhance with Add-on radio boards!



Dev Kit EFR32xG24

A small, cost-effective, and feature-rich development kit based on the MG24 SoC for prototyping and experimenting with energyfriendly Matter devices; supports Qwik and Ada Fruit boards

Explorer Kit EFR32xG24

An ultra-low-cost board for rapid Matter prototyping and concept creation on the MG24 SoC





Learn More



Learn More



Solutions for Matter Over Thread

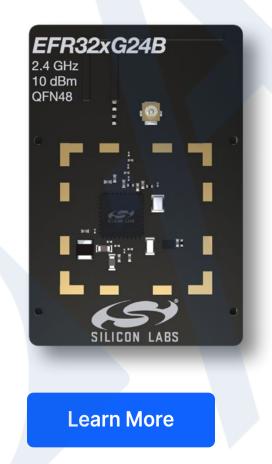
Pro Kit Add-Ons



Radio Board

+10 dBm EFR32xG24 Wireless 2.4 GHz

Works with the MG24 Pro Kit; supports Bluetooth LE, Thread, Matter, and other protocols



Antenna Diversity

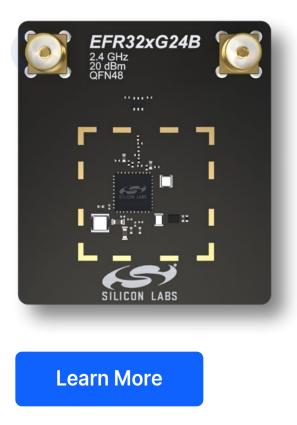
+20 dBm EFR32xG24 Wireless 2.4 GHz

Established for antenna diversity development; designed for managing multipath fading on the MG24 Pro Kit (includes reference)

Radio Board

+20 dBm EFR32xG24 Wireless 2.4 GHz

Works with the MG24 Pro Kit to support Bluetooth LE, Thread, Matter, and other protocols







Solutions for Matter Over Wi-Fi

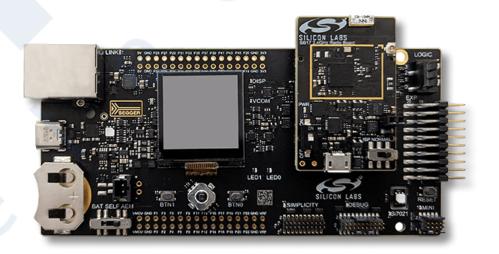


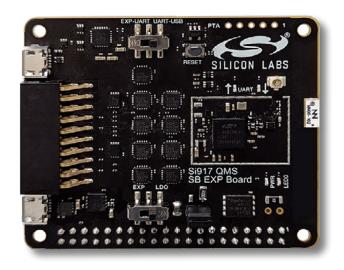
SiWx917 Dev Kit for SoC Mode

Radio board with SiWx917 that plugs into the Pro Kit baseboard; radio board provides access to the SiWx917 MCU peripherals and the internal application MCU for development using Simplicity Studio IDE and Debugger

SiWx917 Dev Kit for NCP/RCP Modes

For RCP and NCP hosted modes of operation, the expansion board plugs into an existing EFR32MG24 Pro Kit to enable the development of hosted applications, including Matter on the MG24







Solutions for Matter Over Wi-Fi



RS9116X EVK2 Wi-Fi + Bluetooth **Dev Kit**

Works with the MG24 Pro Kit; supports Bluetooth LE, Thread, Matter, and other protocols



+ Bluetooth Dev Kit

RS9116X EVK1 Wi-Fi

Established for antenna diversity development; designed for managing multipath fading on the MG24 Pro Kit (includes reference)



Learn More

RS9116X Dual Band Wi-Fi + Bluetooth **Development Kit** (CC1 Module)

Supports Dual Band Wi-Fi 4 802.11 a/b/g/n on the 2.4 & 5 GHz bands and dual-mode Bluetooth, allowing designers to develop applications for the RS9116 CCx modules



Learn More



Solutions for Matter Over Wi-Fi



SLEXP8022C - WF200 Wi-Fi Expansion Kit with Raspberry Pi

Allows development on the WF200 Series of Wi-Fi Transceiver SoCs; includes a built-in Raspberry Pi Connector to get started immediately with Linux development and an EXP Connector to enable development on Silicon Labs' MCUs and Wireless MCUs



Learn More

SLEXP8023C - WFM200S Wi-Fi Expansion Kit with Raspberry Pi

Enables development for the WFM200S Wi-Fi Transceiver modules



Learn More



About Silicon Labs

Silicon Labs is the leading provider of silicon, software, and solutions for a smarter, more connected world. Our industry-leading wireless solutions feature a high level of functional integration. Multiple complex mixed-signal functions are integrated into a single IC or system-on-chip (SoC) device, saving valued space, minimizing overall power consumption requirements, and improving products' reliability. We are the trusted partner for the worldleading consumer and industrial brands. Our customers develop solutions for a wide range of applications, from medical devices to smart lighting to building automation, and much more.

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