

\$		

WELCOME



Silicon Labs LIVE: Wireless Connectivity Tech Talks

Z-Wave Overview Will Begin Shortly

Tech Talks LIVE Schedule

Торіс	Date	
Connected Home Over IP (CHIP) for Beginners	Tuesday, April 21	
Z-Wave Overview	Thursday, April 23	
Battery Optimization with BG22	Tuesday, April 28	
Max Performance on BLE – Simultaneous Connections, Beacons and Scanning	Thursday, April 30	
SubGHz proprietary and Connect software stack	Tuesday, May 5	
How to measure and debug network performance - Using Silicon Labs network analyzer	Thursday, May 7	

https://www.silabs.com/support/training

Z-Wave Enables the Smart Home



100%

Interoperable

3000+ Certified Products

SubGHz

Penetrates Walls Longer Range Less Interference +100M Products Deployed

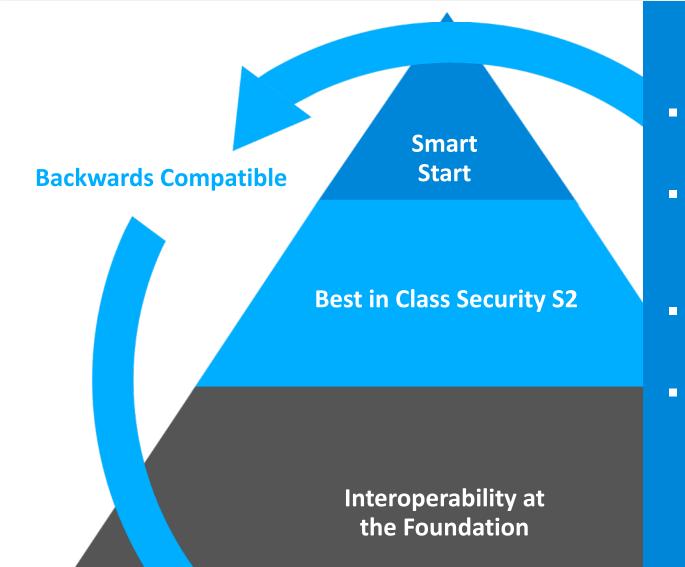
Mesh All Mains-Powered Nodes are Routers

+17%

US Homes have Z-Wavepowered products +90%

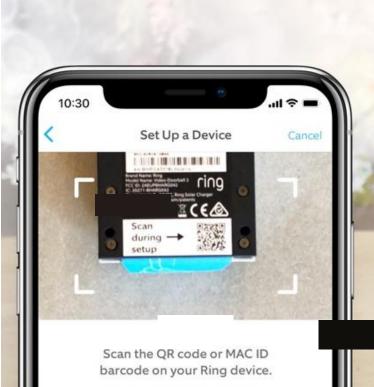
US Market Share in Traditional Security Monitoring Providers

Z-Wave is Simple, Secure, Interoperable



- 20+ years of interoperable products
 Certification ensures interoperability
- World Class Security
 - Elliptic Curve Diffie-Hellman key exchange
 - Strong AES 128 encryption
- SmartStart automatic setup
 - Pull battery tab joins automatically
- Backwards compatibility for the last two decades and the future

SmartStart Delivers Automatic Secure Inclusion

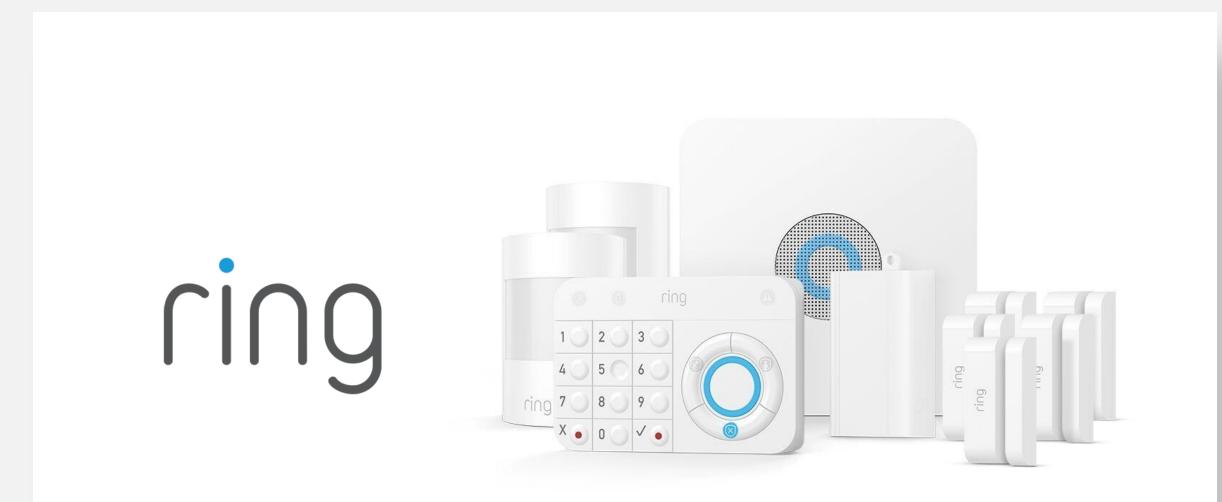


You can also find it on the product packaging.

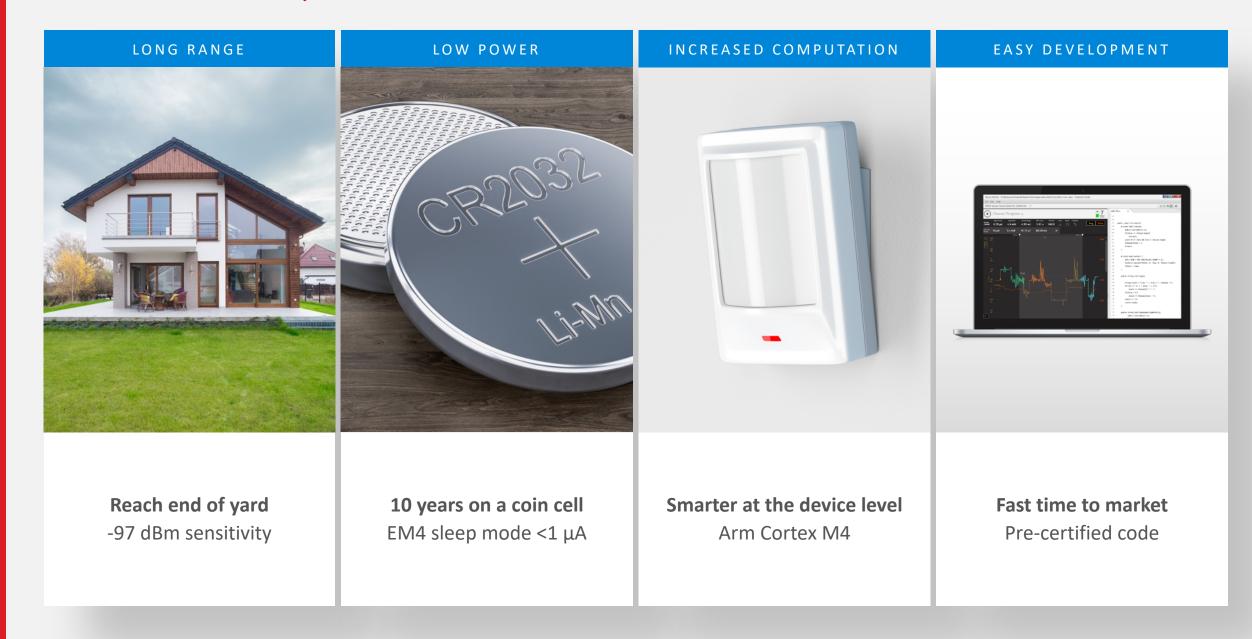


- Pre-Kit packaged solutions
 - Scan QR code on package during kitting
 - Devices automatically join when powered
- Scan QR codes to initiate plug and play secure installation
- Easy installation for DIY
- Fast installation for installers
- Enable consistent quality of install, every time, for every device
- Encourage shift from single device to whole home automation
- Supply service providers with tools to increase productivity and ROI

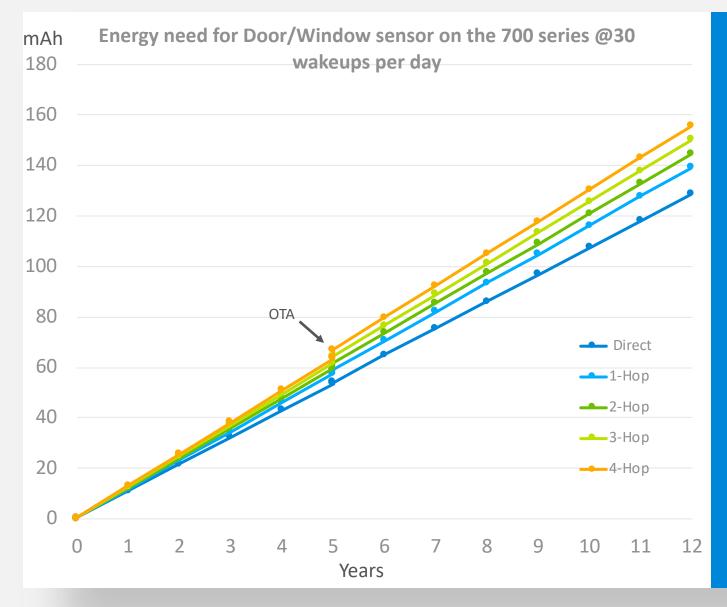
It All Comes Together



Z-Wave 700 Key Benefits



Z-Wave 700 enables 10 years on coin cell



Door Window Sensor on Coin Cell

Energy estimation

- CR2032 coin cell battery capacity: 225mAh
- Door/Window Sensor with 30 activations/day in direct range needs: 110mAh during 10 years operation incl. 1 x inclusion and 1 x OTA

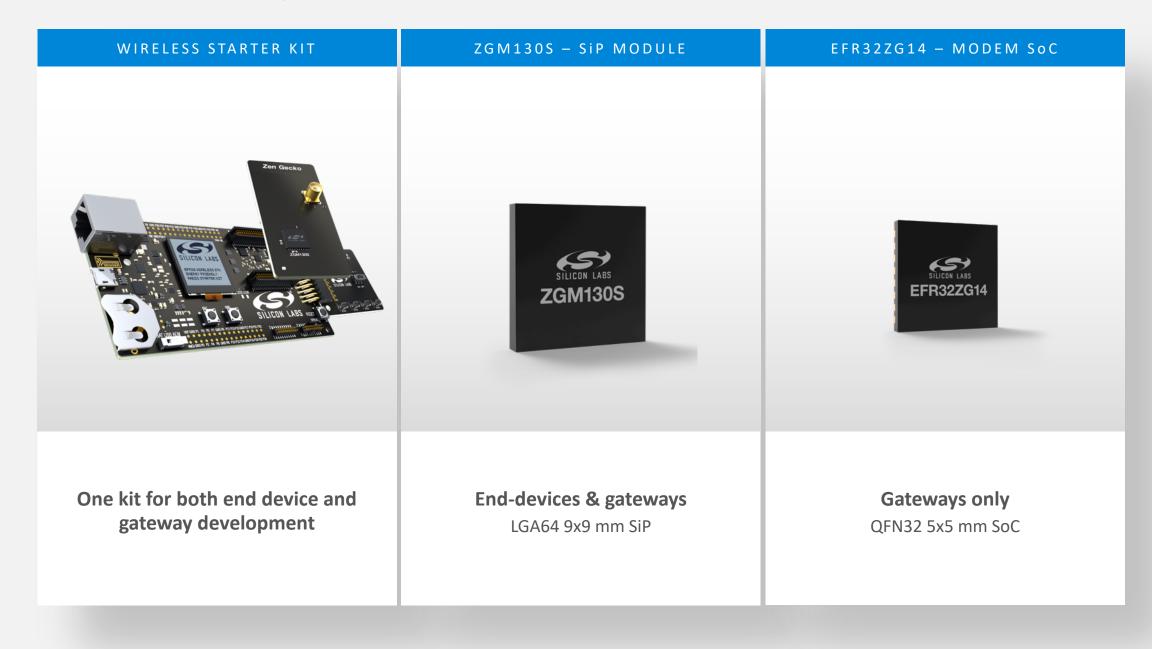
Depending on network conditions

Interoperability Certification Guarantees All Products Work Together

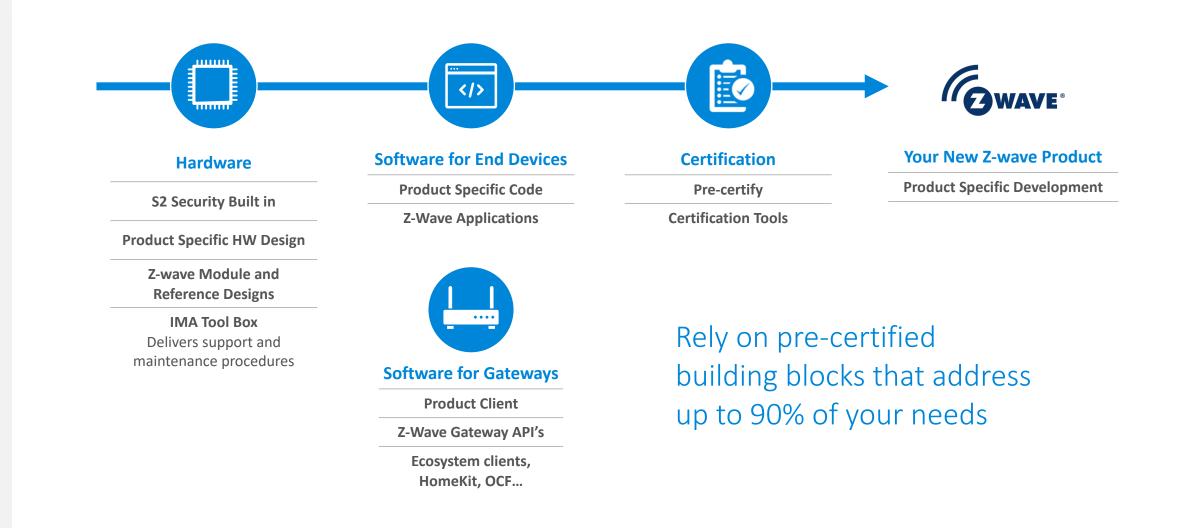


- Certification program maintains:
 - Interoperability between vendors
 - Backwards compatibility
 - Uniform ease of use and high security
- Certification program provides:
 - Specifications for products and services
 - High quality test tools
- Interoperability Result:
 - Ensures all products speak the same language
 - Control Z-Wave products with a single app
 - Provides thousands of configuration options

Z-Wave 700 Components



Build a new Z-Wave product in 6 months



Z-Wave Open Standard with Second Source Silicon & Stacks

- February 2012 Z-Wave ITU.G9959 MAC/PHY specification released
- December 2019 Silicon Labs announces the Z-Wave specification will be an open standard
- Summer 2020
 - Z-Wave Alliance transitions to a Standards Development Organization (SDO)
 - Silicon Labs and four other companies are the founding members
 - Alliance is actively recruiting other silicon providers
 - Alliance members can join Working Groups to enhance specification
 - Desired goal is Rev 0.9 by Works With conference in September and Rev 1.0 by year end 2020
 - Software stacks can be licensed from Silicon Labs or develop your own
 - Silicon/Stack Certification test tool development underway available by EOY2020
- January 2021
 - First Open Z-Wave certified product expected to be released



Z-Wave as the Defacto Sub-GHz Standard – Z-Wave EVERYWHERE

Take Z-Wave to the Next Step in its Evolution: More Innovation

- Allowing for multiple partners to steer and enhance technology direction
- Enables ecosystem of Hardware/Software partners to deploy on an existing robust <GHz technology</p>

Remove Artificial Barriers: More Markets

- Access to More Markets: China, India, etc.
- Removes single source supplier barrier to broader ecosystem adoption
- Allows for broader flexibility in IoT Ecosystem use models

Addressing the Industry Need: Less Confusion

- Reduces need for other non-standard <GHz standards for long range</p>
- Leverages the huge existing installed base

More Vendors: More Verticals

- Through new HW/SW channels targeting other markets
- Broader market offering of Z-Wave solutions tailored to specific verticals







works with

SEPTEMBER 9-11, 2020 | AUSTIN TEXAS https://workswith.silabs.com

> **PROMO CODE: WWSH** 50% OFF EARLY BIRD

Thank You | Questions and Answers

Webinar will be available soon at:

https://www.silabs.com/about-us/events/tech-talks

Previous webinars on CHIP, Bluetooth and Security are already posted

Check out my Z-Wave blog at DrZWave.blog