

Silicon Labs Corporate Overview

MAY 2020

The leader in silicon, software and solutions for a smarter, more connected world.

Silicon Labs

A leading provider of silicon, software and solutions for a smarter, more connected world

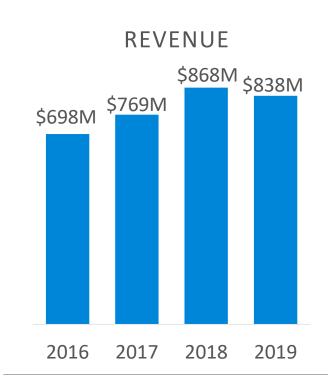
- Core competencies in mixed-signal and RF integration
- A track record of multiple industry firsts, transforming and disrupting large markets
- Focus on high-quality, diversified markets positioning us well for sustainable growth
- Scalable, fabless manufacturing model













2015, 2016, 2017, 2018, 2019 Most Respected Public Semiconductor Company Achieving \$500 Million to \$1 Billion in Annual Sales



Leader in Silicon, Software and Solutions



MCUs | Wireless | Sensors

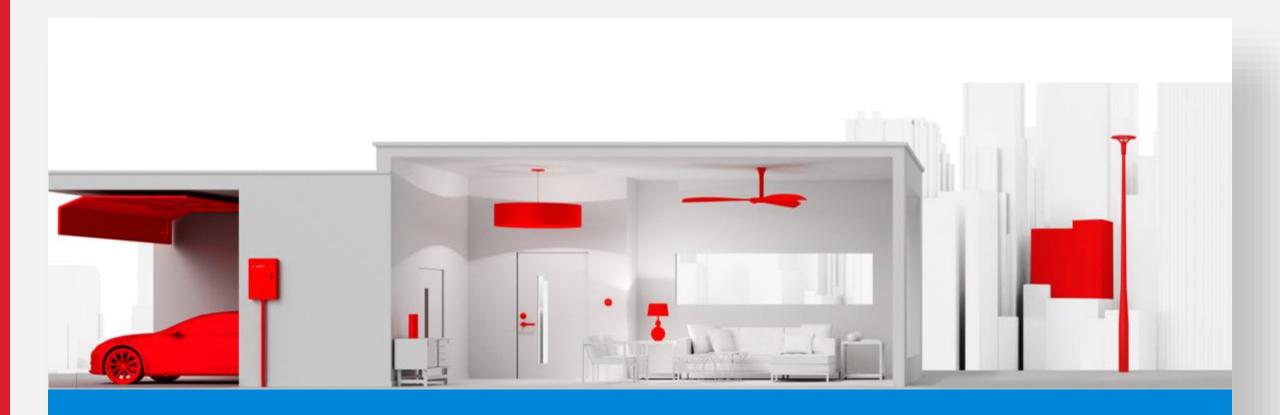


Secure wireless stacks
Embedded OS | OTA Updates



Modules | Reference designs Cloud services | Tools We provide significant advantages in performance, energy efficiency, connectivity and design simplicity.

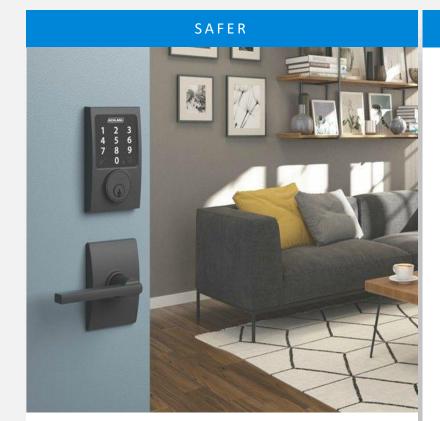
- Diverse range of applications and customers
- Flexible hardware and software platform



We Believe in a More Connected World

Our technologies enable customers to transform industries and improve lives. Together, we are creating a smarter, more connected world that benefits us all.

A More Connected World is...



Allegion's door locks enable delivery service access without homeowners needing to be on-site.

Zigbee

BRIGHTER



Yeelight's LED lightbulbs allow you to control lights with just the touch of your phone.

Bluetooth Mesh

HEALTHIER



Propeller Health makes it possible for asthma and COPD patients to better manage their treatment.

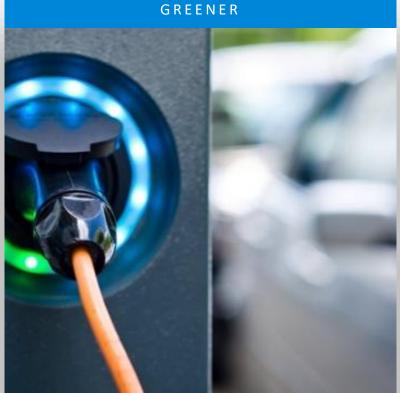
Bluetooth SiP

A More Connected World is...



Highly reliable clocks and crystal oscillators service the backbone of the Internet

Timing



Superior products reduce size and cost for electric vehicles and charging stations

Isolation





Unrivaled, scalable approach for developing auto infotainment systems

Automotive Infotainment

A Diversified Product Portfolio

INTERNET OF THINGS





MCU | Wireless | Sensors ~60% REVENUE

INFRASTRUCTURE



Timing | Isolation ~20% REVENUE

BROADCAST



Automotive Radio | TV Tuners ~15% REVENUE

ACCESS



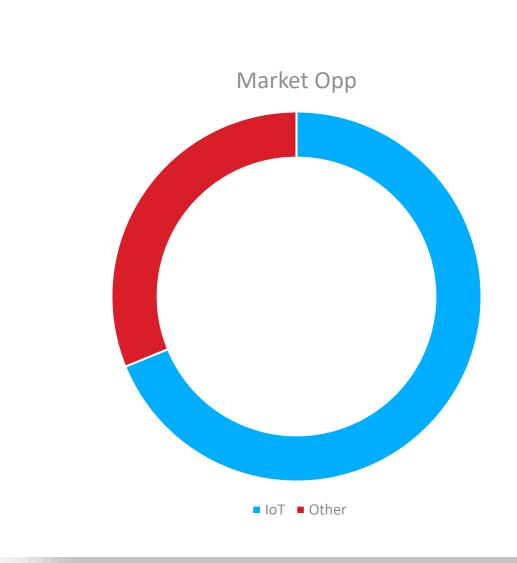


Modems | SLICs | PoE >5% REVENUE

HIGH GROWTH

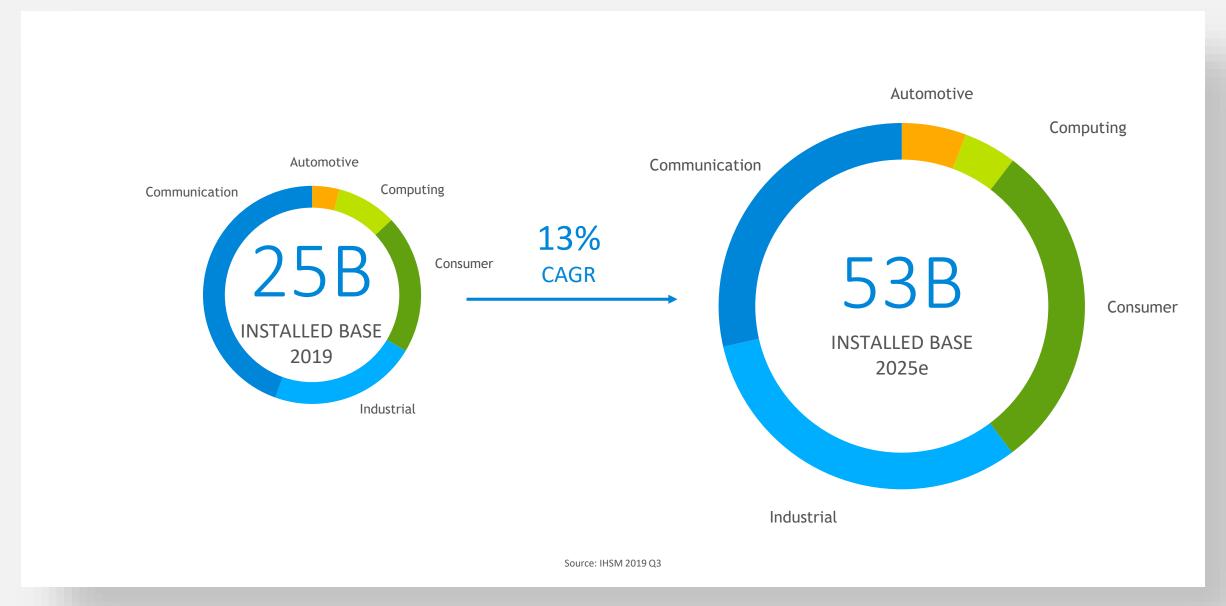
MATURE

IoT Driving \$12.1B Opportunity Pipeline



- Total SLAB
 - Design-win lifetime revenue up >30% y-y
- Wireless solutions driving growth
 - >65% 2019 IoT revenue
 - Grew 14% in FY19 vs WSTS down 16%
- IoT growth drivers
 - Smart home & security
 - High volume lighting
 - Smart metering
 - Broad industrial market

IoT: Market Opportunity



IoT: Leadership in Wireless Silicon, Software and Solutions



- Scalable hardware and software platform
- Provide complete solution from silicon to cloud
- Enable market-leading integrated security
- Broad offering of low-power SoCs
- Extensive wireless protocols including Bluetooth, mesh, proprietary, and Wi-Fi
- Simplicity to drive support leverage
- 1,000's of applications and 10,000's of customers



Wireless MCUs Sensors



Secure wireless stacks
Embedded OS
Device management



Modules Simplicity Studio Application examples

IoT: Executing a Platform Strategy

CUSTOMER REQUIREMENTS

High performance, reliable, maintainable

Easy to develop and deploy

Long life solution





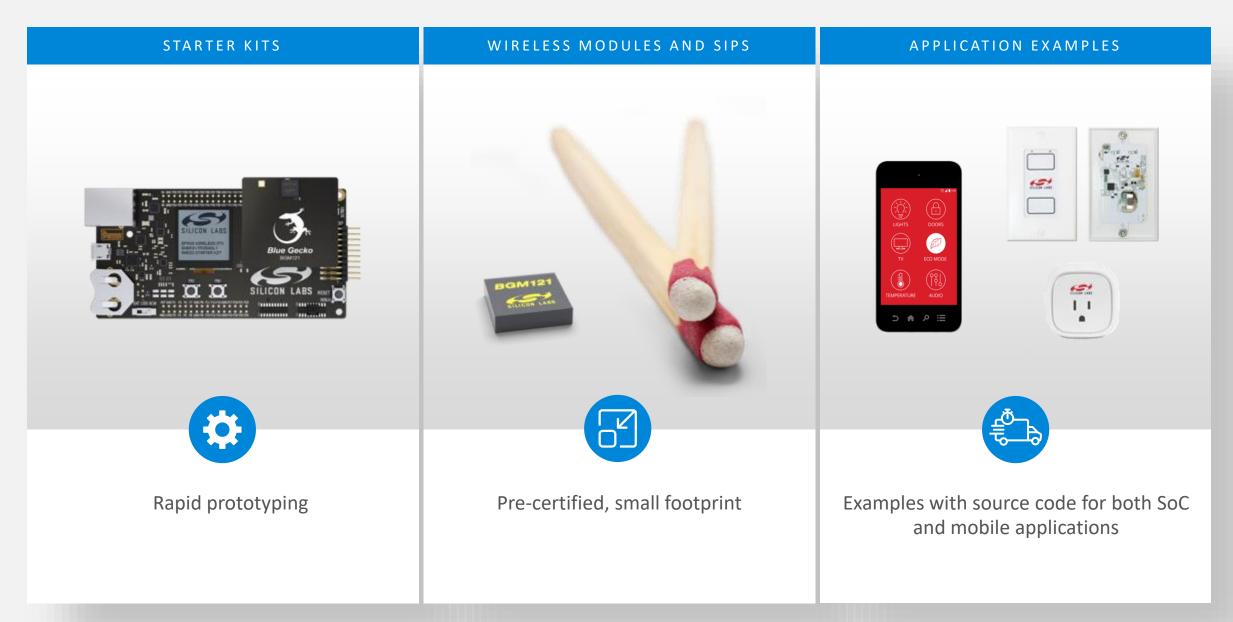
WHY WE WIN

Best connectivity—RF SoCs and modules
Robust SW framework simplifies development
Upgradeable, cloud connected

We Address all Facets of the IoT

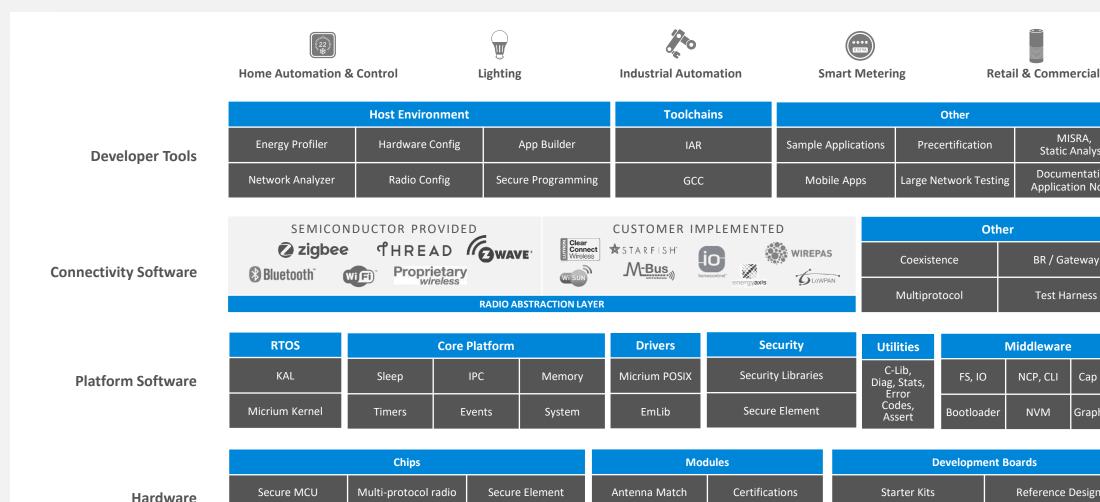
DEVICES AND SOFTWARE **DEVELOPMENT TOOLS** SOLUTION RTOS Wireless SoCs and Modules Silicon-to-Cloud **Leading Tools** Superior RF performance Fast time-to-market | Simplicity Studio IDE Complete solution | RTOS Multiprotocol | Robust stacks | Security Cloud connectivity Connectivity kits | Network optimization

IoT: Solutions to Shorten the Path to Connectivity



Platform-based Edge Node Architecture

eFlash/RAM



Power/Energy

Management

I/O, Interfaces

PCB, SiP

Shield

Development Boards	
Starter Kits	Reference Designs
Radio/Expansion Cards	Evaluation Boards

MISRA,

Static Analysis

Documentation

Application Notes

BR / Gateway

Test Harness

Cap Sense

Graphics Lib

Middleware

NCP, CLI

NVM

Infrastructure: Leadership in Performance and Integration



- Breakthrough architectures leading industry
- Timing: leading in core/metro and expanding into data center, wireless and industrial applications
- Isolation: replacing traditional optocouplers in power supplies, motor controls and green energy applications
- Long life, highly profitable revenue







ming: Clocks & Digital
Oscillators Isolation

Timing Portfolio



- Leading in core/metro and expanding into data center, wireless, industrial and automotive applications
- Patented technologies yield performance advantage
- Flexibility, programmability simplify design
- Oscillators deliver time to market advantage
- 9 of the top 10 telecom equipment providers rely on our timing solutions



XO/VCXO



Jitter Attenuating Clocks



Clock Buffers



Synchronization



Clock Generators



Wireless Clocks

Timing Opportunity

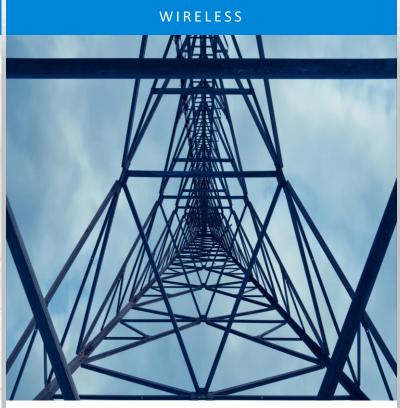


Increasing amount of data being transferred within / between cities, countries

wired wired



Pictures/video social media, cloud storage driving huge connected data centers



Implementation of small cells, distributed antenna systems to increase coverage

Timing Performance Wins

CUSTOMER REQUIREMENTS

Faster data rates require higher performance

More features in a smaller form factor





WHY WE WIN

Industry-leading performance and flexibility

Provide complete clock solutions with
highest level of integration

Isolation Portfolio



- Replacing traditional optocouplers in power supplies, motor controls and green energy applications
- Patented RF, capacitive isolation technology
- Field proven, more than 1B channels shipped
- Best emissions, immunity performance
- Compact size supports shrinking electronics
- High-speed and tight timing improve efficiency
- #1 in digital isolation for electric vehicles, cloud and telecom power supplies









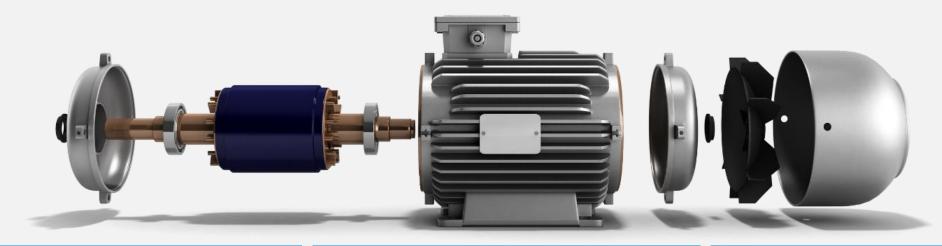
Digital Isolator

Isolated Driver

Isolated ADC

Isolated Analog

Isolation: Global Trends Driving Growth



GREEN ENERGY



Electric & hybrid-electric vehicles



Solar inverters & wind turbines

EFFICIENCY



Server, storage, networking power supplies



300M industrial electric motors installed

REGULATION



Governments issuing efficiency standards

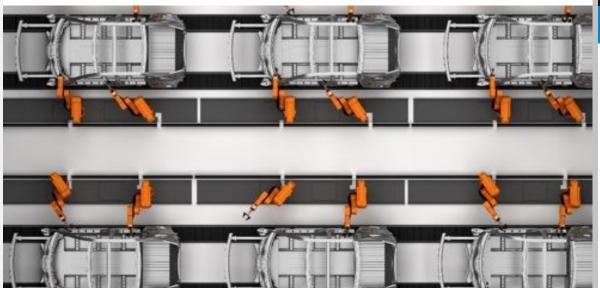


Reduction in greenhouse emissions

Isolation Performance Wins

CUSTOMER REQUIREMENTS

Improve efficiency
Robust operation in noisy environments
Smaller PCB footprints





WHY WE WIN

Delivers faster switching times

Best-in-class noise immunity

Higher density and more integrated features

A Broad Range of Customers and Application Areas



We've shipped more than 150 million mesh networking devices



30 million hours saved yearly with smart metering applications



Boosted energy capacity by 6.8 MW in 13.8 million solar inverters



We're in more than **1M EV/HEV cars**



We help coordinate

90% of Internet traffic



On board 100% of cherry red electric roadsters currently **orbiting the sun**

23 Source: Silicon Labs estimates

High Quality, Agile Supply Chain

Partnering with world-class suppliers to manage products from development to customer delivery

- Reliable, responsive, high volume supply
- Support unexpected surges in demand
- Quality-centered assembly and test, dual sourced
- ISO9001/14001 certified and ISO/TS16949 compliant









20+ YEARS

OF PROVIDING SILICON, SOFTWARE, AND SOLUTIONS

15 YEAR

TIER 1 FOUNDRY/
ASSEMBLY PARTNERSHIP

Innovation in Testing and Performance

CUSTOM TEST HARDWARE



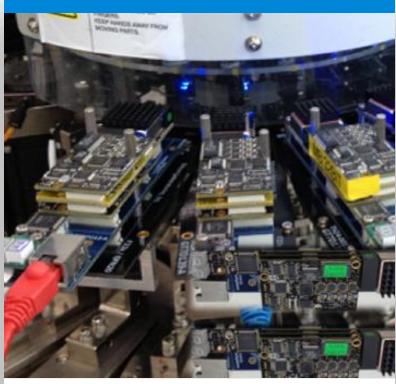
Modular design so we can be responsive to changing requirements

FLEXIBLE CAPACITY



Custom design allows for rapid scaling and deployment

SMALL FORM FACTOR



A typical ATE is about the size of a car; ours is smaller than a shoe box

Key Take Aways



- Well positioned for leadership in IoT
 - Large, growing and diverse market
 - Leading hardware and software platform
 - Advanced capabilities in connectivity and security
- High quality Infrastructure opportunity
 - Addressing trends in data and green energy
 - Focus on communications, industrial & auto markets
 - Expanding SAM and portfolio
- Addressing a \$12.1B opportunity pipeline
 - >\$8B IoT opportunity
 - Double digit growth opportunity for IoT & Infrastructure
 - Total DW LTR up >30% y/y

Thank you

