Silicon Labs Corporate Overview

APRIL 2017

Silicon, software and solutions for a smarter, more connected world
Silicon Labs

A track record of multiple industry firsts, transforming and disrupting large markets

- Core competencies in mixed-signal and RF CMOS silicon architectures, software, and systems
- Focus on high-quality, diversified markets
- Increasingly positioned for sustainable growth

- Founded in 1996
- Listed on Nasdaq
- More than 30,000 customers
- More than 1,500 patents

Revenue (in $M):
- 2013: 580
- 2014: 621
- 2015: 645
- 2016: 698

2015 & 2016 Most Respected Semiconductor Company
High Quality, Agile Supply Chain

Partner with world class suppliers to manage products from development to customer delivery

- Reliable, high volume supply
- Support unexpected surges in demand
- Quality-centered assembly and test, dual sourced
- ISO9001/14001, ISO/TS 16949 certified company

>7B/devices shipped
>30,000/customers
15-year Tier 1 Foundry/Assembly Partnership
We are empowering a more connected world with breakthrough technologies in silicon, software, and solutions.
Leveraging Our 20 Year History into the Future

RF Synthesizer
Fundamental breakthrough in mixed-signal and CMOS RF integration

1996

DAA

2016

IoT
Broadcast
Infrastructure
Access

MCU
Software & Sensors
Wireless connectivity
Radio / TV Tuners
Automotive
Timing
Isolation
PoE
SLIC
Modem
A Track Record of Disruptive Technologies

- Modem: 5X SMALLER | GLOBAL
- TV Tuner: 20X SMALLER | GLOBAL
- Timing: QUAD PROGRAMMABLE OSCILLATOR
- Bluetooth Module: 10X SMALLER | LOW POWER
A Diversified Product Portfolio

<table>
<thead>
<tr>
<th>Internet of Things</th>
<th>Infrastructure</th>
<th>Broadcast</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCU</td>
<td>Wireless</td>
<td>Sensors</td>
<td>Timing</td>
</tr>
<tr>
<td>~50% REVENUE</td>
<td>~20% REVENUE</td>
<td>~20% REVENUE</td>
<td>~10% REVENUE</td>
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IoT: A Leader in Silicon, Software and Solutions

- Broad offering of low-power MCUs
- Extensive wireless protocols including Bluetooth, mesh, proprietary, and Wi-Fi
- Variety of sensors including infrared, proximity, heart rate, and position sensors
- Tools, embedded software, and cloud services to accelerate development

8-bit, 32-bit MCUs
Wireless MCUs
Wireless modules

Sensors
Embedded software and cloud services
IoT Opportunity

**16B**
INSTALLED BASE 2016

**70B**
INSTALLED BASE 2025e

Source: Q216 IHS reports and Silicon Labs estimates. Communication estimate includes handsets. Computing estimate includes PCs.
IoT: The Complete Story

**SILICON**
- Wireless SoCs and Modules
  - Superior RF performance
  - Multiprotocol | Robust stacks | Security

**DEVELOPMENT TOOLS**
- Leading Tools
  - Fast time-to-market | Simplicity Studio Connectivity kits | Network optimization

**SOLUTION**
- Node-to-Cloud
  - Complete solution | RTOS Cloud connectivity
IoT: A Leading SoC Architecture

- Highly integrated IoT platform
- Features low power Gecko technology
- Energy-efficient peripherals
- Multiprotocol radio
## IoT: Solutions to Shorten the Path to Connectivity

<table>
<thead>
<tr>
<th><strong>STARTER KITS</strong></th>
<th><strong>WIRELESS MODULES</strong></th>
<th><strong>REFERENCE DESIGNS</strong></th>
</tr>
</thead>
<tbody>
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<td>Rapid prototyping</td>
<td>Pre-certified, small footprint</td>
<td>Ready made solutions take you to market faster</td>
</tr>
</tbody>
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- **STARTER KITS**
  - Rapid prototyping

- **WIRELESS MODULES**
  - Pre-certified, small footprint

- **REFERENCE DESIGNS**
  - Ready made solutions take you to market faster
IoT: Differentiated Tools

- Automated code creation and debug
- Visual energy profiling and optimization
- Graphical wireless application development
- Network debug, packet trace, and analysis
- Stacks, SDKs, documentation, and examples
IoT: Complete Node-to-Cloud Solution

Embedded design platform for cloud connectivity and device management

- Security from factory to field
- Choice of cloud service providers
- Complete solution for deploying and managing devices
Infrastructure: Timing Portfolio

- Leader in high performance clocks and oscillators
- Patented technologies yield performance advantage
- Flexibility, programmability simplify design
- The top 10 data center interconnect providers rely on our products

- XO/VCXO
- Jitter Attenuating Clocks
- Clock Buffers
- Synchronization
- Clock Generators
- Wireless Clocks
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
Timing: Our Solutions Replace Complete Clock Trees

- Flexible clock synthesis architecture
- Generates any combination of frequencies
- Replaces multiple clocks and oscillators with single IC
- <100fs phase jitter provides significant margin
- Capable of clocking highest performance PHY for demanding 25/40/100/400G applications
### Timing: Our Oscillators Deliver Time to Market Advantage

<table>
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<tr>
<th>SILICON</th>
<th>SOFTWARE</th>
<th>SOLUTION</th>
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| 4:1 Oscillator Integration  
Higher reliability | Customizable  
Web configurable by customer | Speeds Development  
Custom samples in two weeks versus 24 for other vendors |

Our Oscillators Deliver Time to Market Advantage
Our digital isolation delivers increased integration and robustness compared to optical solutions

- Patented RF, capacitive isolation technology
- Field proven, nearly 500M channels shipped

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Digital Isolator  
Isolated Driver  
Isolated Analog  
Isolated ADC
Isolation: Customer Requirements

CUSTOMER REQUIREMENTS

Improve efficiency
Robust operation in noisy environments
Smaller PCB footprints

WHY WE WIN

High speed and tight timing improve efficiency
Best noise immunity & emissions performance
Higher density and more integrated features
Isolation Technology Leads in Performance

- Best emissions, immunity performance
- Compact size supports shrinking electronics
- High-speed and tight timing improve efficiency
- Industrial grade solution reduces bill of materials and simplifies design
Complete portfolio of tuners and coprocessors
- Best-in-class radio reception
- Scalable from basic to full-featured radios
- Worldwide radios with end-of-line programming
- High integration, industry’s smallest solution
- Largest portfolio of single and dual demodulators
- Industry’s only single-chip dual demodulators

AM/FM Radio
Digital Radio Tuner/Demod
Automotive Data Tuners
Broadcast: TV

- World’s smallest TV and STB tuners
- Best-in-class tuner performance
- Support for worldwide standards
- >60% global TV market share
- Field proven worldwide, >600Mu shipped
Access: Voice and Data

- Voice over IP solutions enabling telephony for Cable, Optical, and DSL broadband users
- Power over Ethernet solutions supporting enterprise applications through end devices
- Modems empowering mission critical retail, security, and fax communications
- Robust performance, reliability, and supply chain—billions of units shipped!
Key Take Aways

- Technology leadership
- Simplifying the customer experience
- Track record of strong growth
- Delivering products that transform industries