The Low Power Programmable Leader

First Quarter, 2020
Safe Harbor

This presentation contains forward-looking statements that involve estimates, assumptions, risks and uncertainties, including statements relating to our expectations about our systems solutions’ offerings under the heading “Future,” and the statements under the heading “Q120 Business Outlook.”

Factors that may cause actual results to differ materially from the forward-looking statements in this presentation include those risks more fully described in Lattice’s filings with the SEC including its annual report on Form 10-K for the fiscal year ended December 29, 2018 and quarterly filings.

You should not unduly rely on forward-looking statements because actual results could differ materially from those expressed in any forward-looking statements. In addition, any forward-looking statement applies only as of the date on which it is made. The Company does not intend to update or revise any forward-looking statements, whether as a result of events or circumstances after the date hereof or to reflect the occurrence of unanticipated events.
Our Mission

The Low Power Programmable Leader
Lattice Semiconductor Overview

**APPLICATIONS & MARKETS**

We enable secure control, flexible connectivity, and low power compute acceleration.

- **Communications & Computing**: 39%
- **Industrial & Automotive**: 37%
- **Consumer & Broadcast**: 24%

**WORLD CLASS SUPPLIER**

In business and innovating for 35 years

- **$404M**: 2019 revenue
- **1 BILLION+**: shipped last 4 years

**GLOBAL SUPPORT**

- Cisco
- Amazon
- Panasonic
- Samsung
- Nokia
- Bosch
- Siemens
- Sony

Sales Support | Development Ctr. | Operations Ctr.
Lattice Executive Leadership Team

Jim Anderson
CEO

Mark Nelson
Sales

Esam Elashmawi
Marketing & Strategy

Steve Douglass
Research & Development

Glenn O’Rourke
Operations

Sherri Luther
CFO

Byron Milstead
General Counsel

Terese Kemble
Human Resources
Agenda

1. Company Overview
2. Products & Solutions
3. End-Markets & Applications
4. Financials
Lattice Value Proposition

- Smallest SIZE
- Lowest POWER
- Highest SECURITY
- EASE of Use
- RELIABLE by Design

by Design
Lattice Product Portfolio

**BROAD FAMILY OF LOW POWER FPGAs**

**GENERAL PURPOSE**

Addresses a broad range of applications across multiple markets

- Up to 150K LUTs in 10x10 mm csfBGA
- Highest density & lowest power SERDES in smallest package

**FPGA FAMILIES TAILORED FOR SPECIFIC NEEDS**

**VIDEO CONNECTIVITY**

- Optimized for high speed video and sensor applications
  - First FPGA with hardened MIPI D-PHY
  - Highest performance at lowest power

**ULTRA LOW POWER**

- World’s lowest power FPGAs; Optimized for small form factor
  - Sleep current as low as 25uA
  - World’s most popular ultra-low power FPGA

**CONTROL & SECURITY**

- Optimized for platform management & security applications
  - 50% market share
  - Highest I/O density
AVAILABLE NOW

LATTICE NEXUS

Next Generation FD-SOI FPGA Platform

- Low power leadership
- Edge computing ready
- Robust and reliable
- Smallest form factor
- Faster innovation cadence
Lattice Nexus is Changing the FPGA Landscape

**POWER**
- Operating Power Consumption
  - Competition: High
  - Lattice: Low (Up to 75% Lower power)

**PERFORMANCE**
- Video Connectivity
  - Competition: Slow
  - Lattice: Fast (Up to 2x Faster speed)

**RELIABILITY**
- Soft Error Rate
  - Competition: High
  - Lattice: Low (Up to 100x Lower SER)

Note: comparing similar class competitive devices.
Lattice’s Expanded System Solutions

**TODAY**
- Security Solution Stack
- AI Solution Stack
- Soft IP
- Lattice Radiant SW

**FUTURE**
- More Solution Stacks
- Security Solution Stack
- AI Solution Stack
- Soft IP
- Lattice Radiant SW

Bringing Additional Value to Our Customers
New Low Power Silicon

**CrossLink-NX**
- Embedded Vision Processing
- Built on the Lattice Nexus Platform
- Optimized Low Power Architecture
- Available now

**MachXO3D**
- Robust Platform Security
- Secure Hardware
- Designed for NIST Compliance
- Customer Samples Delivered
New Value-Added Solutions and Software

**Lattice mVision**
- Low Power Embedded Vision
  - Flexible Image Sensor Bridging and Aggregation
  - Image Processing Integration
  - Complete Solution Enablement

**Lattice sensAI**
- Low Power Edge AI
  - High Performance Inferencing Under 1W
  - Expanded ML Capability
  - Complete Solution Enablement

**Lattice Radiant**
- Advanced Ease-of-use
  - Simplified Flow for Faster Design
  - Increase Re-use with IP Tools
  - Leading Synthesis & Simulation
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Positioned in Growing End Markets

Only Lattice is investing in small, low power FPGAs for these markets
Lattice Solves Communications Challenges

- Scalable Hardware Management
- Secure Control
- ASIC Bridging
- PCIe Bridging
Lattice Solves Data Center Challenges

- PLATFORM FIRMWARE RESILIENCE
- COMPUTE ACCELERATION
- SYSTEM CONTROL
- POWER SEQUENCING
Lattice Solves Industrial Challenges

Programmable Logic Controller
Motor Control
Predictive Maintenance
Functional Safety
Collision Avoidance
Package Detection
Sensor Bridging
Machine Vision
Industrial Networking
Lattice Solves Automotive Challenges

EV CAR
- Motor Control
- IGBT Protection

E-MIRROR
- De-Fog
- ISP

INFOTAINMENT
- Audio Bridging
- Display Bridging
- Driver Monitoring
- 360° Surround View

ADAS
- Image Sensor Bridging and Aggregation
- Radar Sensor Bridging and Aggregation

Lattice Solves Automotive Challenges
Lattice Solves Consumer Challenges

- Sound Bars
- High end Projectors
- AR / VR
- Smart Appliances
- Smart Light
- Smart Thermostat
- Residential Security
- Smart Speakers
- Drones
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Financial Highlights

**REVENUE ($M)**
- 1Q19: 98.1
- 2Q19: 102.3
- 3Q19: 103.5
- 4Q19: 100.2

**CASH ($M)**
- 1Q19: 130.4
- 2Q19: 122.6
- 3Q19: 97.4
- 4Q19: 118.1

**NET INCOME ($M)** (Non-GAAP)
- 1Q19: 14.5
- 2Q19: 21.1
- 3Q19: 22.9
- 4Q19: 22.9

**DEBT ($M)**
- 1Q19: 233.5
- 2Q19: 189.5
- 3Q19: 156.4
- 4Q19: 146.5
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