



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.

# Agenda

1

**Company Overview**

2

Products & Solutions

3

End-Markets & Applications

4

Financials



The background is a dark blue, abstract digital landscape. It features a grid of small, glowing blue cubes or pixels. Overlaid on this grid are several bright red laser lines that crisscross the frame, creating a sense of depth and connectivity. The overall aesthetic is high-tech and futuristic.

# 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%

CISCO  
DELL  
NOKIA

amazon  
BOSCH  
SIEMENS

Panasonic  
SAMSUNG  
SONY

## WORLD CLASS SUPPLIER

In business and innovating for 35 years

**\$404M**  
2019 revenue

**1 BILLION+**  
shipped last 4 years

## GLOBAL SUPPORT



# 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



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# Lattice Value Proposition

Smallest  
**SIZE**



Lowest  
**POWER**



Highest  
**SECURITY**



**RELIABLE**  
by Design



**EASE**  
of Use





# Lattice Product Portfolio

## BROAD FAMILY OF LOW POWER FGAs

### 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 FGAs; 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

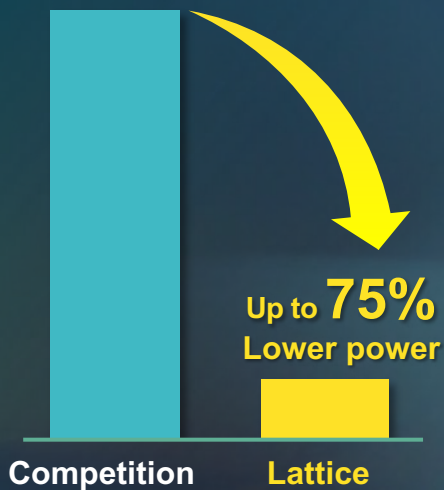


# Lattice Nexus is Changing the FPGA Landscape



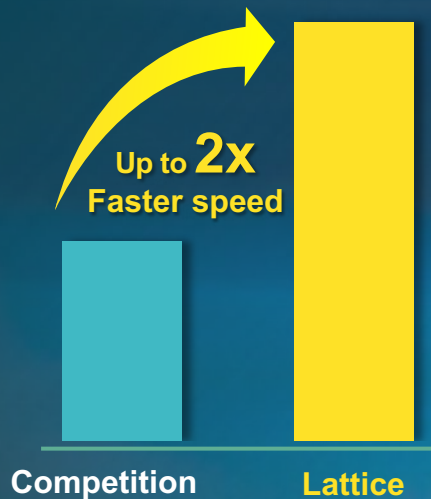
## POWER

### Operating Power Consumption



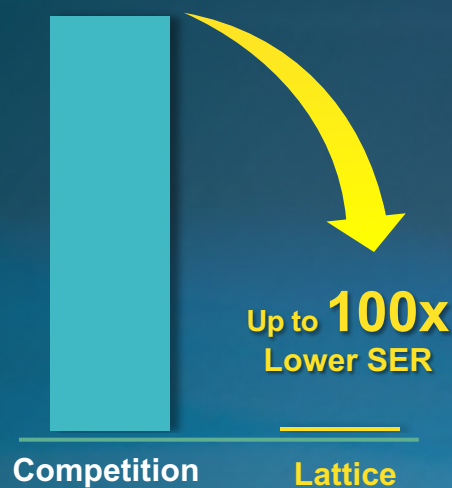
## PERFORMANCE

### Video Connectivity



## RELIABILITY

### Soft Error Rate





# Lattice's Expanded System Solutions



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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- 3 End-Markets & Applications**
- 4 Financials

# Positioned in Growing End Markets

## COMMUNICATIONS



5G Wireless

Switches/Routers

## COMPUTE



Servers

Client

## INDUSTRIAL



Industrial IoT

Factory Automation

## AUTOMOTIVE



ADAS

Infotainment

## CONSUMER



Smart Home

Wearables

**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**



**SYSTEM CONTROL**

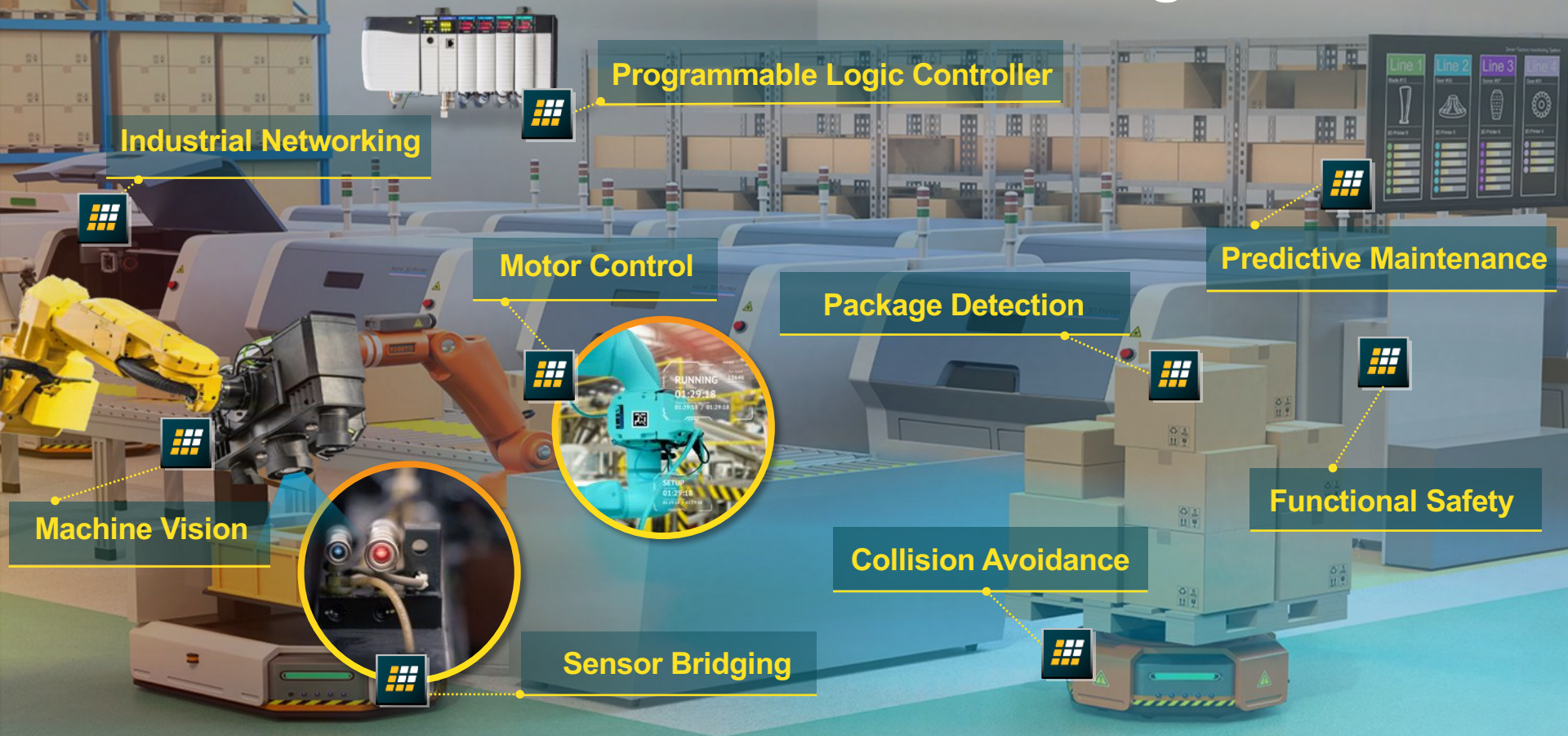


**COMPUTE ACCELERATION**



**POWER SEQUENCING**

# Lattice Solves Industrial Challenges





# Lattice Solves Automotive Challenges

## EV CAR

Motor Control

IGBT Protection



## E-MIRROR

De-Fog

ISP



## ADAS

Image Sensor Bridging and Aggregation

Radar Sensor Bridging and Aggregation

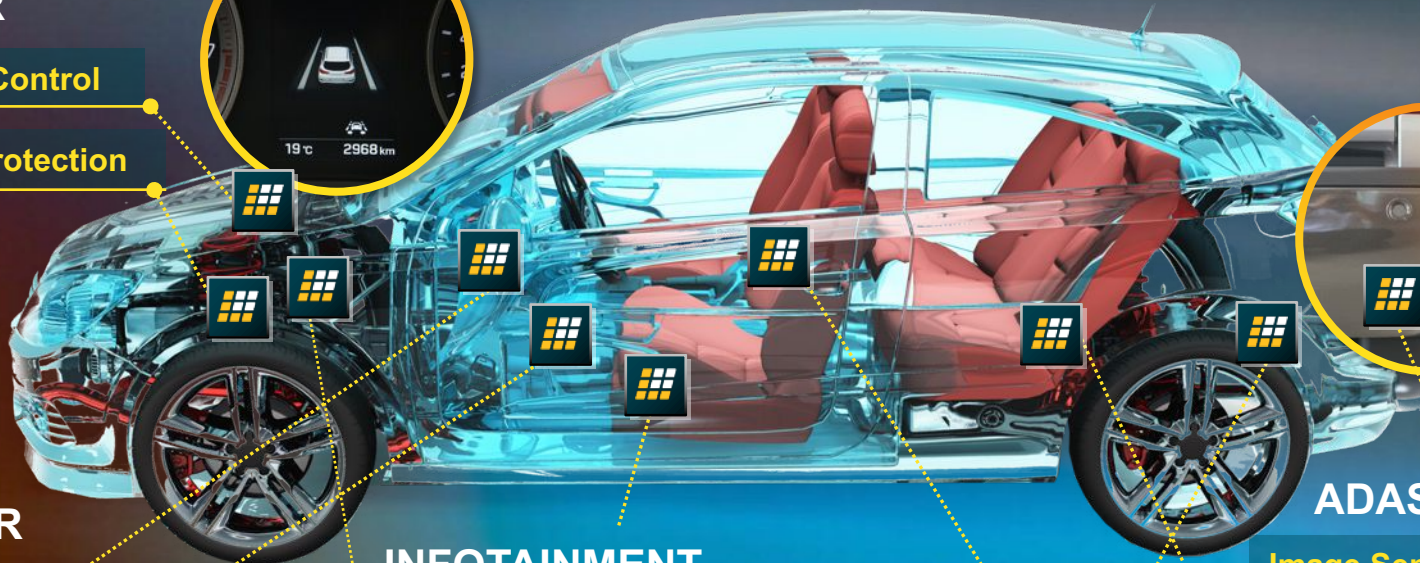
## INFOTAINMENT

Audio Bridging

Display Bridging

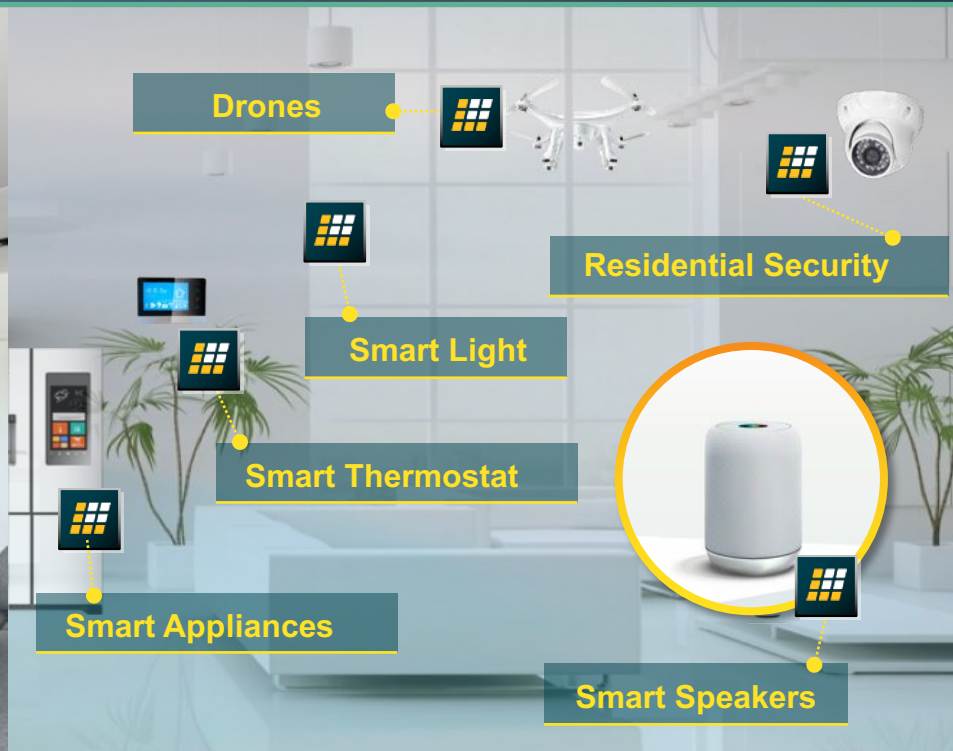
Driver Monitoring

360° Surround View





# Lattice Solves Consumer Challenges



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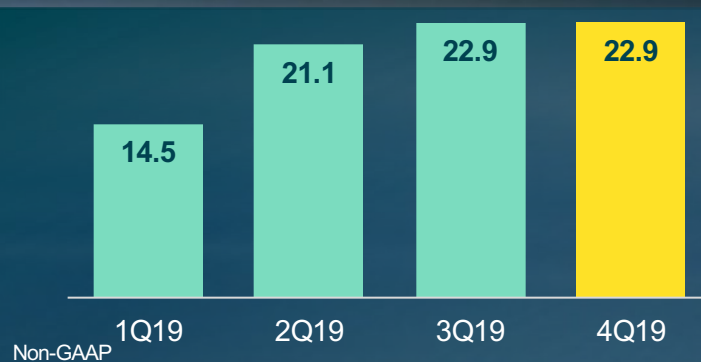
**Financials**

# Financial Highlights

REVENUE (\$M)



NET INCOME (\$M)



CASH (\$M)



DEBT (\$M)







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