



The Low Power Programmable Leader

Fourth 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" .

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 28, 2019 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**

**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

43%



INDUSTRIAL &  
AUTOMOTIVE

41%



CONSUMER &  
LICENSING SERV.

16%

## WORLD CLASS SUPPLIER

In business and innovating for 35 years

#1

World's largest volume  
supplier of FPGA

1 BILLION+

Shipped in the  
last 4 years



## GROWING CUSTOMER BASE



## 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

# Agenda

1

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2

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3

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4

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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

- Lowest power and smallest package (6 x 6 mm) with 5G PCIe & GigE support
- Up to 150K LUTs with significant compute under 1 W and lowest power 5G SERDES



## 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

- Static current as low as 25 uA
- 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

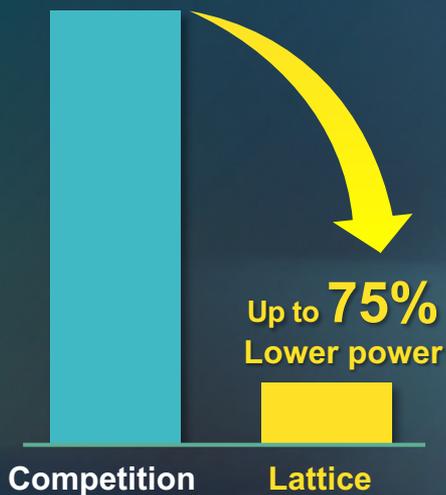


# Lattice Nexus is Changing the FPGA Landscape



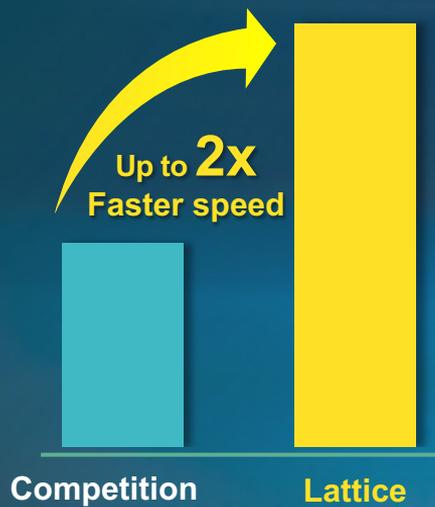
## POWER

### Operating Power Consumption



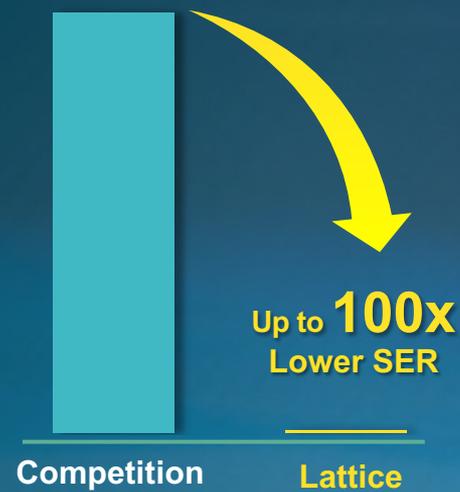
## PERFORMANCE

### Video Connectivity



## RELIABILITY

### Soft Error Rate



# Lattice's Expanded System Solutions



Bringing Additional Value to Our Customers

# New Nexus-based Low Power Silicon

## CrossLink-NX



Embedded Vision Processing

Built on the Lattice Nexus Platform

Optimized Low Power Architecture

Available now

## Certus-NX



General Purpose Processing

Built on the Lattice Nexus Platform

Lowest power & smallest package with 5G PCIe

Available now

## Mach-NX



Next Gen Hardware Security

Cyber Resilient System Control

Dynamic End-to-End Firmware Protection

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

Supports Industry Standard  
ML Frameworks

Complete Solution  
Enablement

## Lattice Radiant



Advanced  
Ease-of-use

Simplified Flow for Faster  
Design

Increase Re-use with IP Tools

Leading Synthesis &  
Simulation

## Lattice Propel



Easy Processor  
System Design

IP System Integration  
Environment

Software Development Kit &  
Libraries

Build, Compile, Analyze,  
Debug

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1

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3

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4

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# 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**

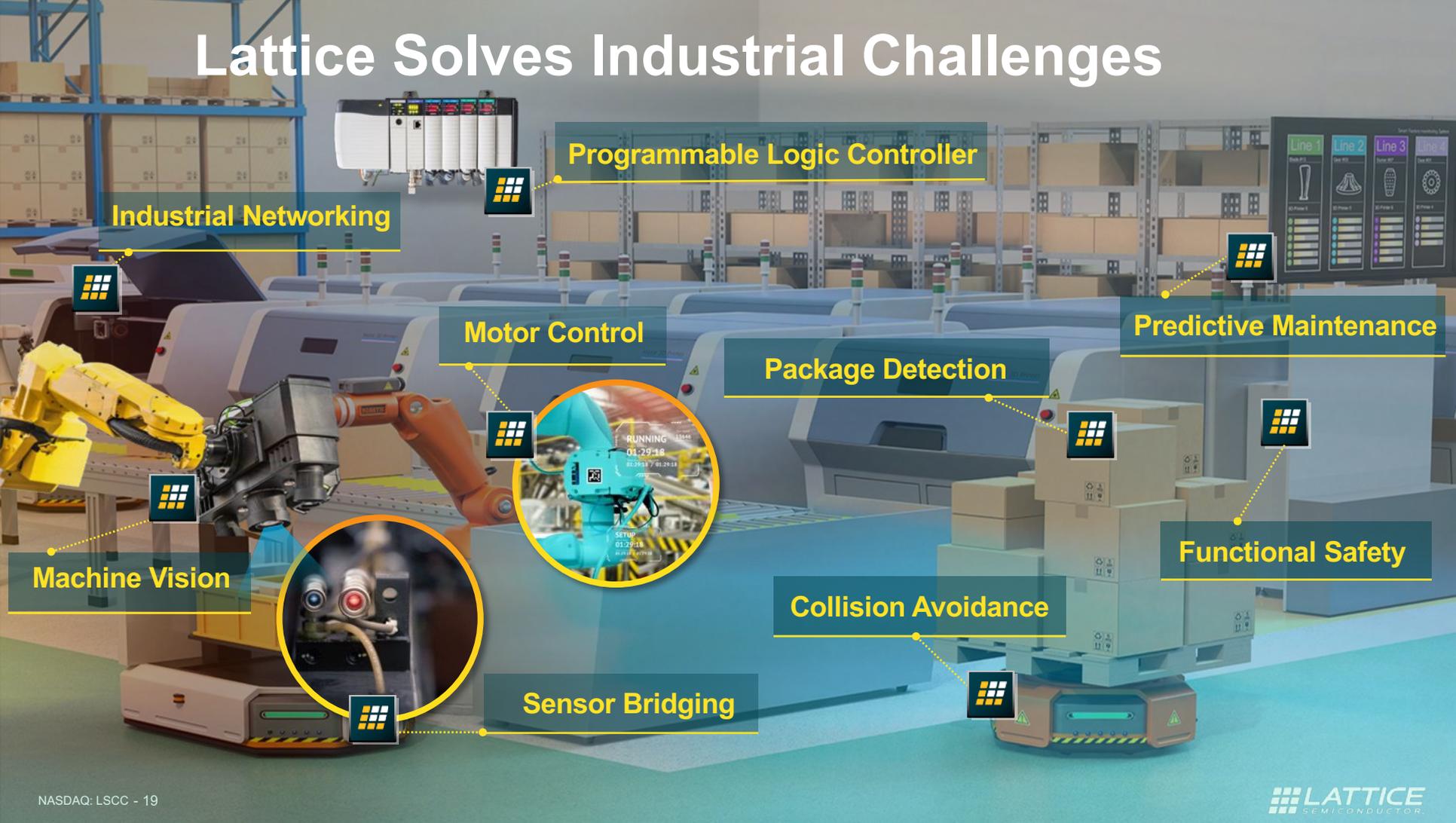


**COMPUTE ACCELERATION**



**POWER SEQUENCING**

# Lattice Solves Industrial Challenges



Industrial Networking

Programmable Logic Controller

Motor Control

Package Detection

Predictive Maintenance

Machine Vision

Functional Safety

Collision Avoidance

Sensor Bridging

# 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

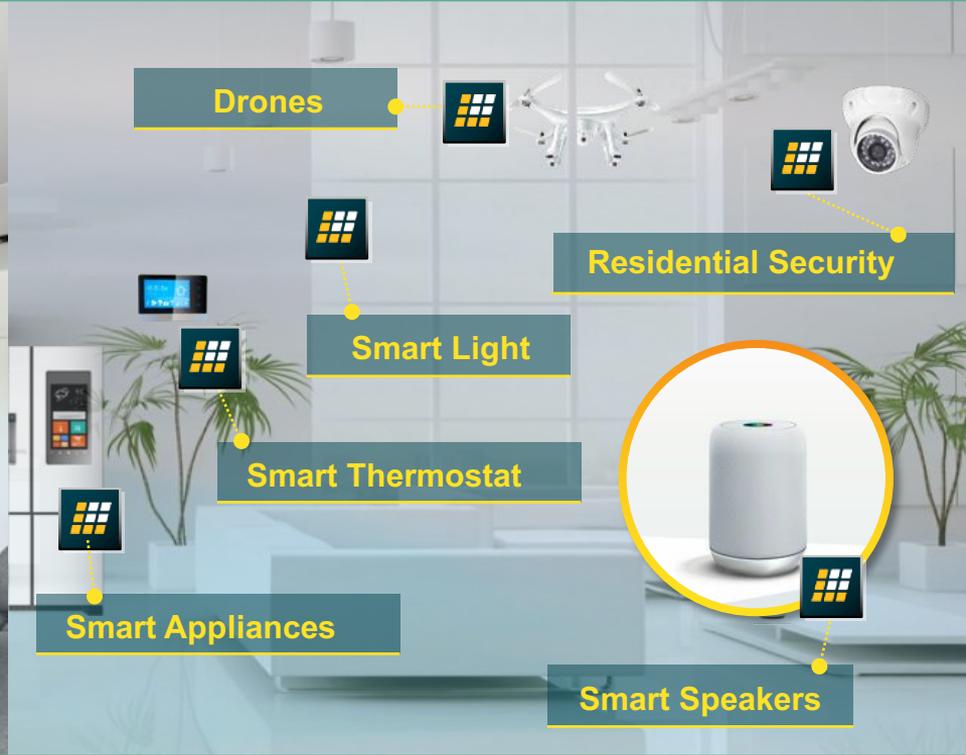
## ADAS

Image Sensor Bridging and Aggregation

Radar Sensor Bridging and Aggregation



# Lattice Solves Consumer Challenges



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# Financial Highlights

## REVENUE (\$M)



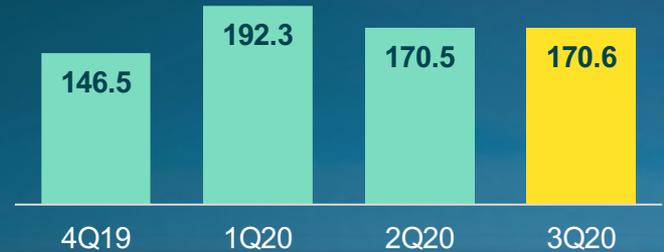
## NET INCOME (\$M)



## CASH (\$M)



## DEBT (\$M)





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