



The Low Power Programmable Leader

## Corporate Overview

December 2022

# Safe Harbor

This presentation contains forward-looking statements that involve estimates, assumptions, risks and uncertainties, including statements relating to our expectations about future offerings under the heading “Products and Solutions.”

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 January 1, 2022 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

41%



INDUSTRIAL & AUTOMOTIVE

50%



CONSUMER & LICENSING SERVICES

9%

## WORLD CLASS SUPPLIER

#1

World's largest volume supplier of FPGA

Tier 1

Supplier with 39 years of innovation



## GROWING CUSTOMER BASE



## GLOBAL SUPPORT



# Lattice Executive Leadership Team



**Jim Anderson**  
CEO



**Sherri Luther**  
CFO



**Mark Nelson**  
Sales



**Esam Elashmawi**  
Strategy & Marketing



**Steve Douglass**  
Research & Development



**Glenn O'Rourke**  
Operations & Quality



**Tracy Feanny**  
General Counsel



**Terese Kemble**  
Human Resources



**Denis Lavallee**  
Miramatrix



# Holding Ourselves to the Highest ESG Standards

## CULTURE OF INNOVATION



## ENVIRONMENTALLY CONSCIOUS



## INCLUSION & SOCIAL WELLBEING



## TRANSPARENCY & INTEGRITY



**Committed to Sustainable Business Practices**

# Agenda

1 Company Overview

**2 Products & Solutions**

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# Lattice Value Proposition

Smallest  
**SIZE**



Lowest  
**POWER**



Highest  
**SECURITY**



**RELIABLE**  
by Design



**EASE**  
of Use





# Lattice FPGA Portfolio

PLATFORM

DEVICE FAMILIES

LATTICE  
AVANT™



## SOLVING KEY CHALLENGES AT THE EDGE

PROCESSING DATA



ARTIFICIAL INTELLIGENCE



LATTICE  
NEXUS™

CrossLink-NX



Embedded Vision  
Processing

Certus-NX



General Purpose  
Processing

Mach-NX



Next Gen  
Hardware Security

CertusPro-NX



Advanced General  
Purpose Processing

MachXO5-NX



Enhanced System  
Monitor and Control



# FPGA PLATFORM LEADERSHIP

## LATTICE NEXUS™

Architected for applications requiring up to 10G SERDES and up to 100k LCs



## LATTICE AVANT™

Architected for applications requiring up to 25G SERDES and up to 500k LCs



**LOWER  
POWER**



**FASTER  
PERFORMANCE**



**SMALLER  
SIZE**

# Software Solution Stack Portfolio



## Low Power Edge AI

High Performance Inferencing Under 1W

Supports Industry Standard ML Frameworks

Complete Solution Enablement



## Low Power Embedded Vision

Flexible Image Sensor Bridging & Aggregation

Image Processing Integration

Complete Solution Enablement



## Cyber Resilient Root of Trust

Secure Hardware Creates Root-of-Trust for Systems

Cryptographically Secured Supply Chain

Protection Against Cloning, Counterfeiting, Trojan Insertion, & Simulation



## Accelerating Factory Automation

Accelerates industrial automation development

Supports use cases like motor control, real-time networking, & predictive maintenance

Complete solution enablement



## Enabling ORAN Deployment

Enables zero trust security and data protection in networks

Flexible, Tight Fronthaul Synchronization

Acceleration with Low Power



# Leadership Computer Vision Capabilities



Presence Detection

Depth Sensing

3D Head & Gesture Tracking

Face ID & Landmarks Tracking

Eye Feature Detection & Tracking

Human Skeleton Detection

Object Detection

**Advanced AI Technology for the Edge**

# Easy-to-use Software Tools



## Powerful FPGA Design & Verification Environment

Easy Design Exploration

Easy to Use Powerful Tools

Optimized for Lattice Devices



## Best-in-class, Easy-to-use Design Software

Simplified Flow for Faster Design

Increase Re-use with IP Tools

Leading Synthesis & Simulation



## Complete Toolset for Embedded System Design

IP System Integration Environment

Software Development Kit & Libraries

Build, Compile, Analyze, Debug



## Advanced Computer Vision Software for the Edge

Security and Privacy Protections

Digital Wellbeing Capabilities

Facilitates Intelligent Collaboration & Productivity



# RAPID PRODUCT PORTFOLIO EXPANSION

## SOFTWARE SOLUTIONS



Next Solution Stack  
TO BE ANNOUNCED

## HARDWARE DEVICES

AVAILABLE TODAY

2023

2024+



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# Positioned in Growing Markets

## COMMUNICATIONS



5G Wireless  
Switches/Routers

## COMPUTING



Servers  
Client

## INDUSTRIAL



Industrial IoT  
Factory Automation

## AUTOMOTIVE



ADAS  
Infotainment

## CONSUMER

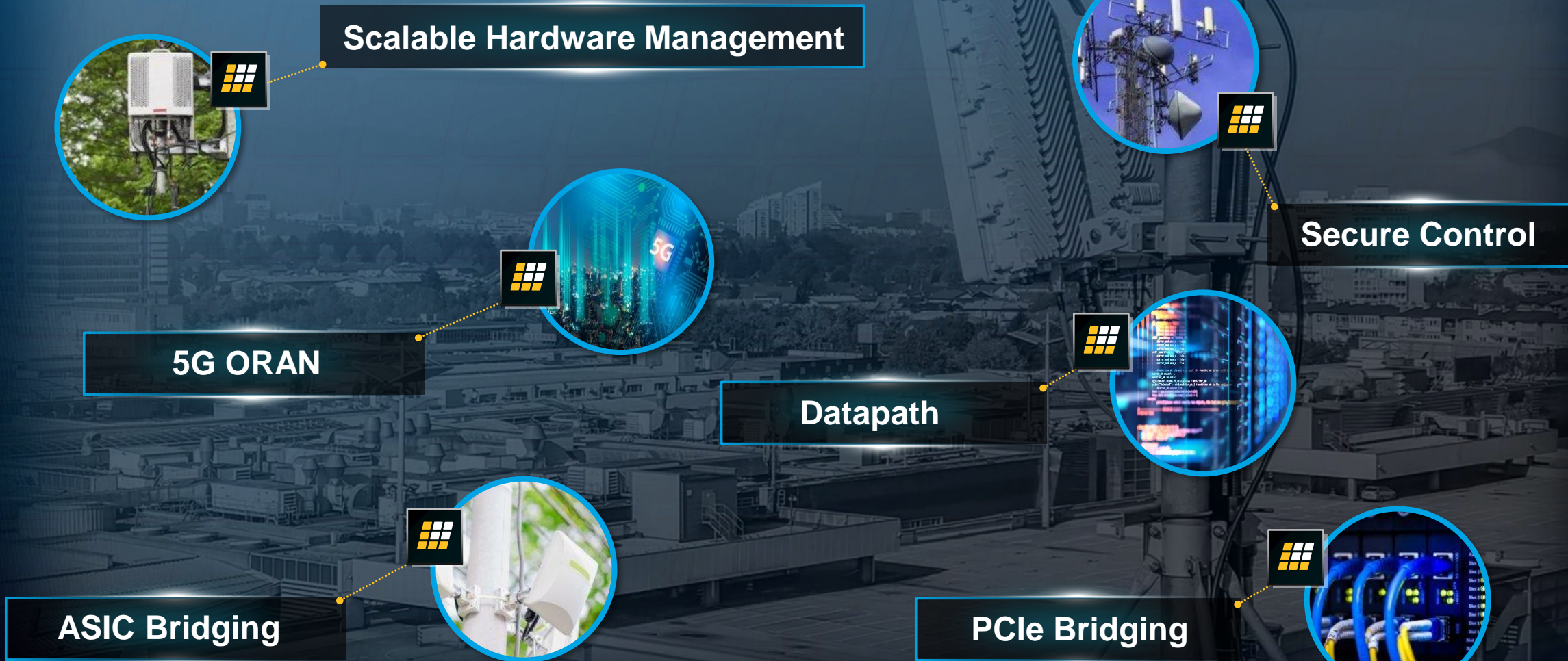


Smart Home  
On-the-Go

**Leading the Industry in Low Power Programmability**



# Lattice Solves Communications Challenges





# Lattice Solves Client Computing Challenges

## AI Capable

Aware of surrounding  
User detection & wellness

## Enhanced Security

Platform Firmware Resilience

## Seamless Interfacing

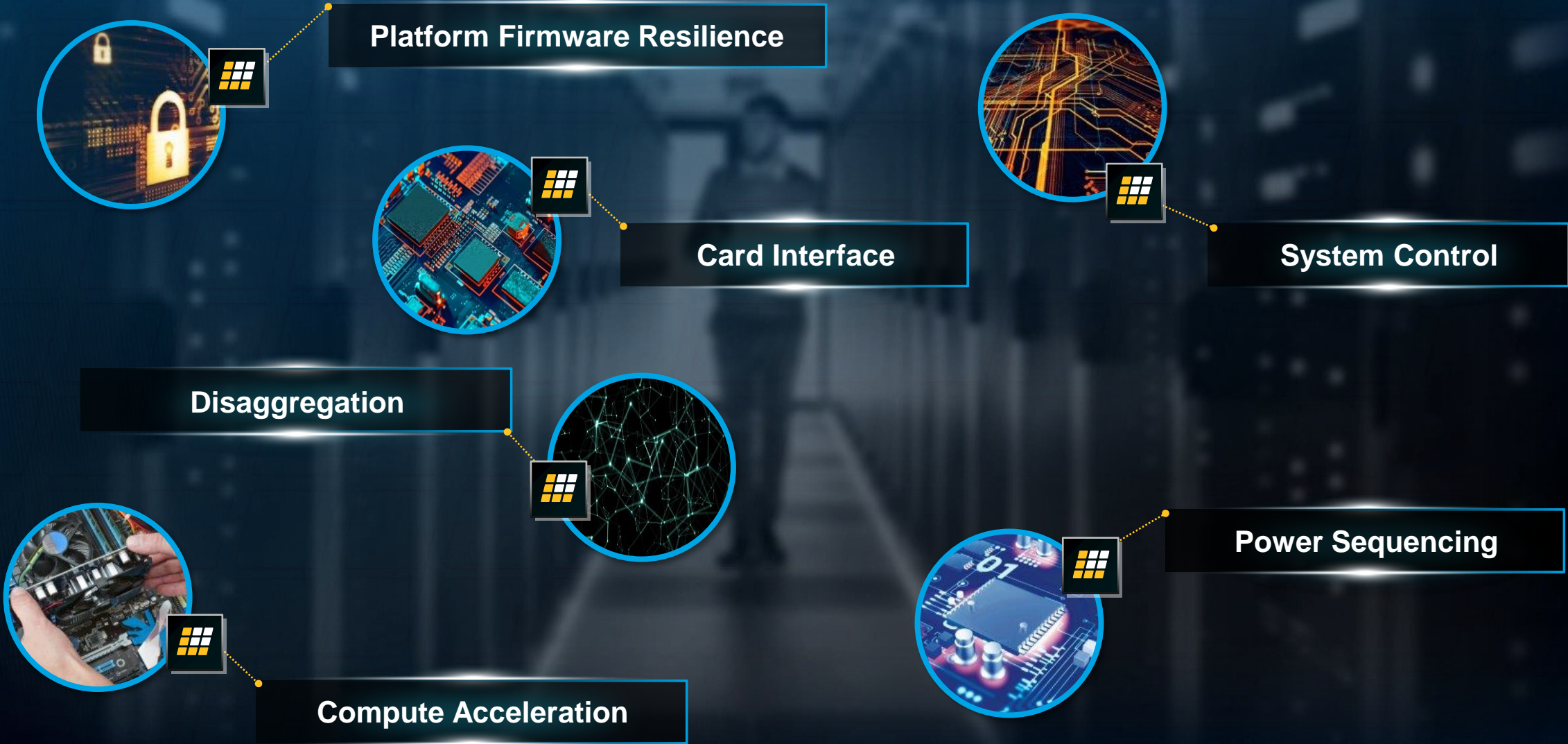
MIPI bridging  
Sensor fusion

## Small Form Factor

Single wire aggregation

**Client Computing is a Greenfield Opportunity for Lattice**

# Lattice Solves Datacenter Challenges





# Lattice Solves Industrial Challenges

Industrial Networking



Functional Safety



Edge Computing



Touchless Control



Programmable Logic Controller



Predictive Maintenance



Machine Vision



Object Identification



Motor Control



Sensor Bridging



Collision Avoidance





# Lattice Solves Automotive Challenges

## INFOTAINMENT

De-Fog

360° Surround View

Display Bridging

ISP

## ADAS

Radar Sensor Bridging & Aggregation

Image Sensor Bridging & Aggregation

## IN-CABIN AI

Human Presence Detection

Driver Monitoring

## SECURITY

Secure Battery Mgt.

Secure Boot

## HYBRID/ELECTRIC

Inverter / Charger



# Lattice Solves Consumer Challenges

Drones



AR / VR



Smart Appliance



Smart Speaker



Consumer Robots



Video Surveillance



Wearable



Smart Doorbell



Smart Toys



# Agenda

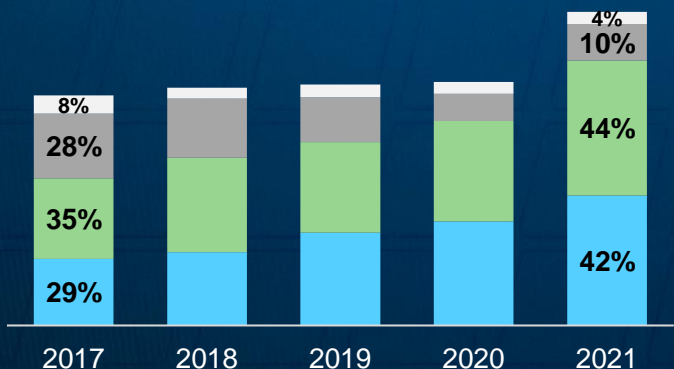
- 1 Company Overview
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# Strong Financial Execution

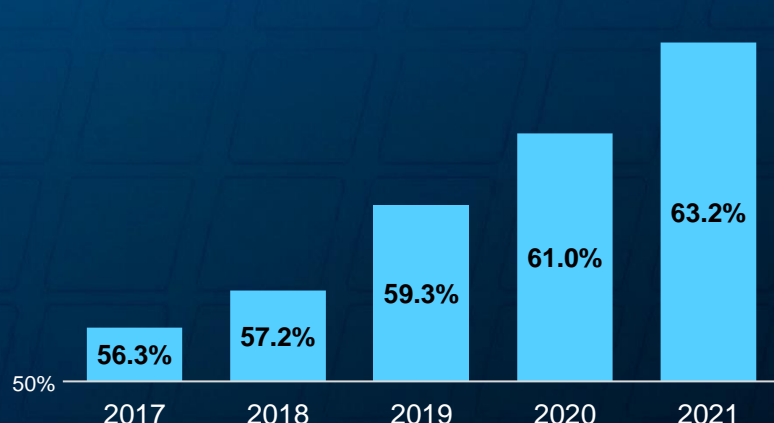
## REVENUE

■ Comms/Compute ■ Industrial/Auto ■ Consumer ■ IP



Growth in Core Strategic Markets

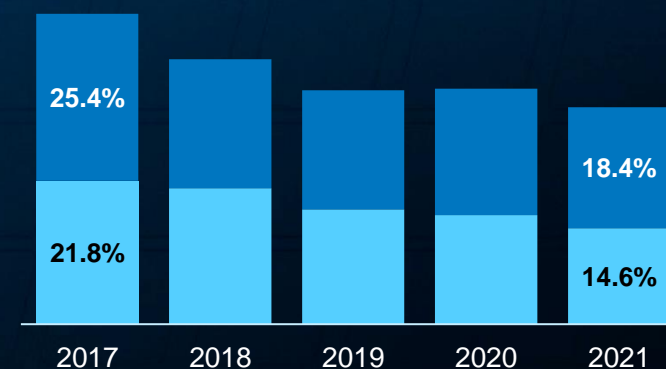
## GROSS MARGIN\*



Gross Margin Expansion

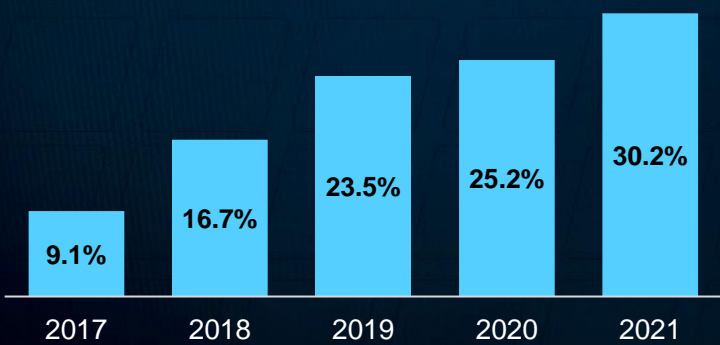
## OPEX\*

■ SG&A ■ R&D



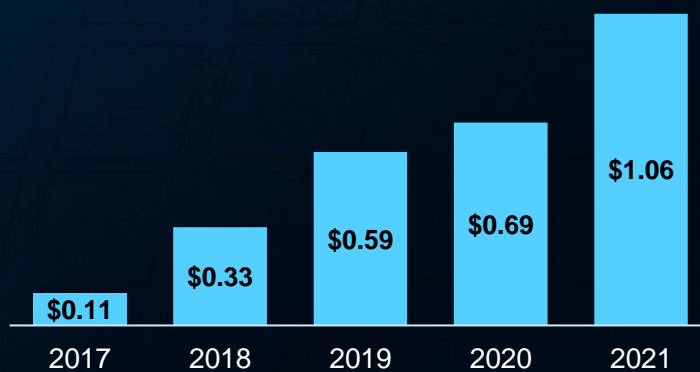
OpEx Discipline

## OPERATING INCOME\*



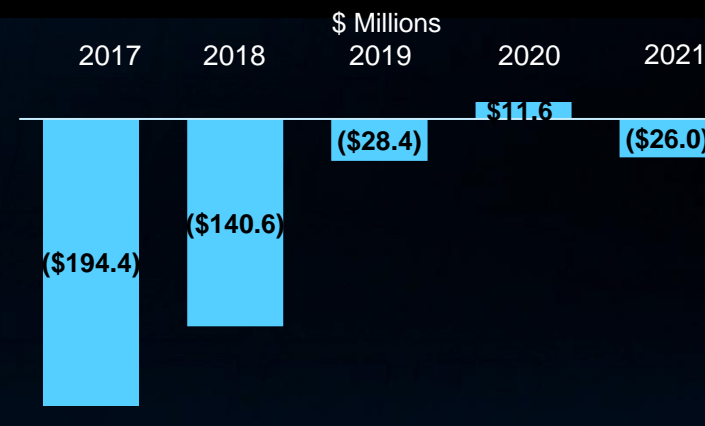
Record Operating Income

## EARNINGS PER SHARE\*



EPS Expansion

## NET CASH



All-cash Mirametrix Acquisition in Q4'21

# Lattice Semiconductor Q3 2022 Earnings Results Highlights

## REVENUE

↑ **31%** YoY | **7%** QoQ

Record quarterly revenue of \$172.5M

## GROSS MARGIN

↑ **69.5%**

Expanded by 590 bps YoY

## EARNINGS PER SHARE

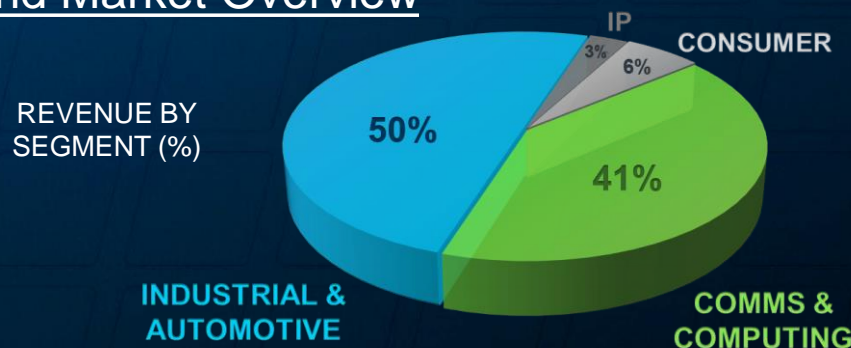
↑ **71%** YoY

\$0.48 in Q3 2022 vs \$0.28 in Q3 2021

“Topline growth was driven by our strategic segments of industrial and automotive, as well as communications and computing. We are pleased with the continued growth in our existing products and very excited about the expansion of our product portfolio into new greenfield opportunities with the December launch of Lattice Avant.”

Jim Anderson, President & CEO

## End Market Overview



## INDUSTRIAL & AUTOMOTIVE

↑ **45%** YoY | **15%** QoQ

## COMMS & COMPUTING

↑ **26%** YoY | **0%** QoQ

## CONSUMER

↓ **-13%** YoY | **-11%** QoQ

## Product & Corporate Momentum



Introduced CertusPro-NX FPGAs optimized for automotive applications



Announced Lattice Avant launch event date on December 5, 2022



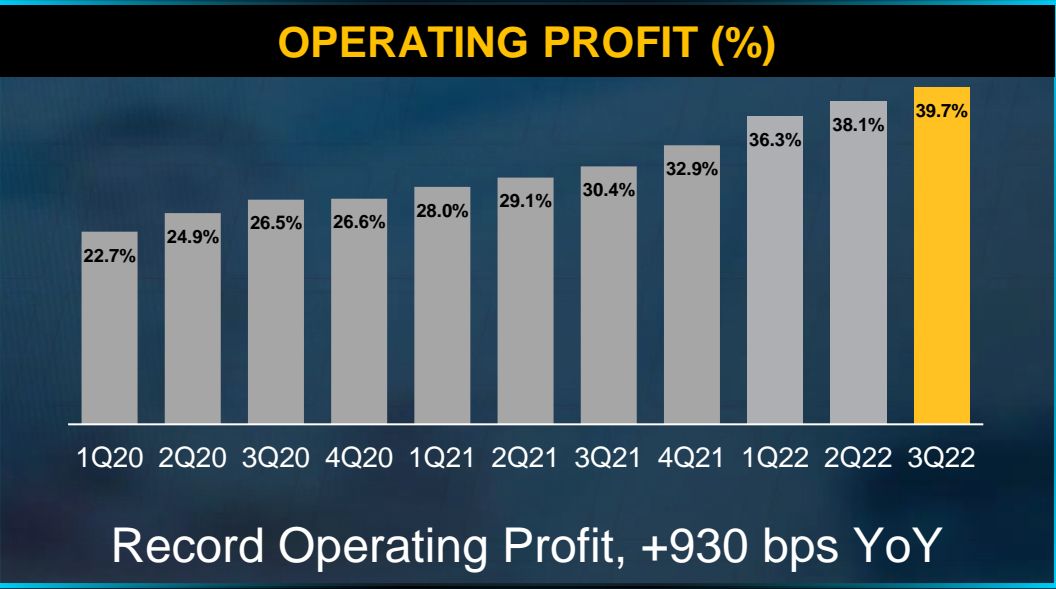
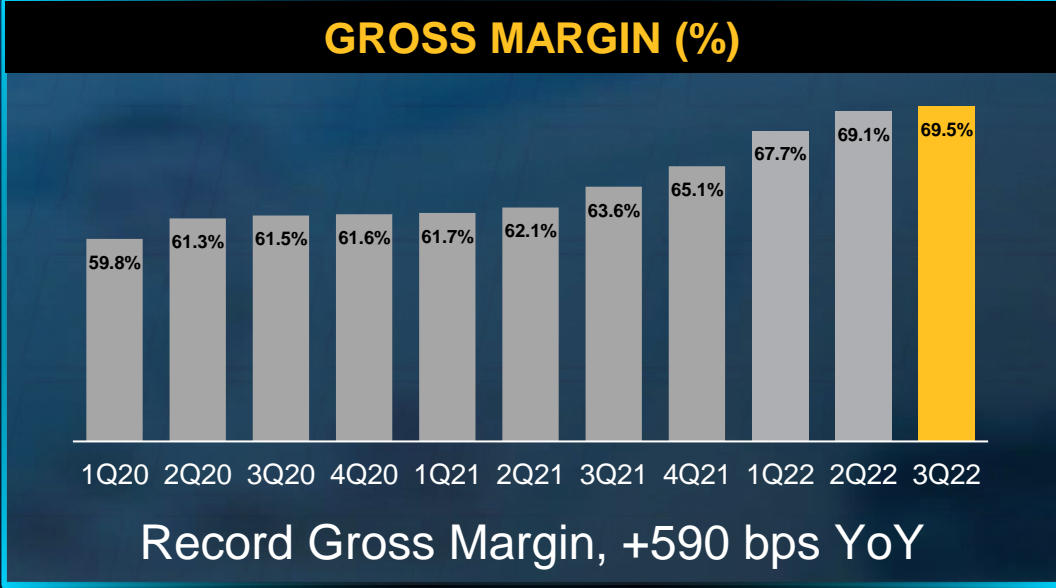
Received Global Sustainability Leadership Award for second consecutive year



Expanded stock repurchase program up to an additional \$150 million through Dec. 2023



# Q3 2022 Financial Highlights





The Low Power Programmable Leader