



The Low Power Programmable Leader

## Corporate Overview

October 2023

# Safe Harbor Statement

This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 that involve estimates, assumptions, risks and uncertainties. Any statements about our expectations, beliefs, plans, objectives, assumptions or future events or performance are not historical facts and may be forward-looking. Such forward-looking statements include, but are not limited to, statements relating to new greenfield growth opportunities; our market position; our product portfolio expansion; our ability to solve customer challenges; and growth in our customer base. Other forward-looking statements may be indicated by words such as “will,” “could,” “should,” “would,” “may,” “expect,” “plan,” “project,” “anticipate,” “intend,” “forecast,” “future,” “believe,” “estimate,” “predict,” “propose,” “potential,” “continue” or the negative of these terms or other comparable terminology. Factors that may cause actual results to differ materially from the forward-looking statements in this presentation include global economic conditions which may affect customer demand, pricing and inflationary pressures, competitive actions, and international trade disputes and sanctions, the on-going Covid-19 pandemic and those risks more fully described in Item 1A in the Company’s Annual Report on Form 10-K for the fiscal year ended December 31, 2022, and as may be supplemented from time-to-time in Lattice’s other filings with the Securities and Exchange Commission, all of which are expressly incorporated herein by reference. 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.

## Use of non-GAAP Financial Information

To supplement the Company's financial statements presented on a GAAP basis, the company has provided non-GAAP financial information in this presentation, including non-GAAP gross margin, earnings per share, operating profit, and operating expenses. Non-GAAP financial information is not meant as a substitute for GAAP results but is included because management uses such information to evaluate and manage the company and believes such information is useful to our investors for informational and comparative purposes. These non-GAAP measures should be considered in addition to, and not as a substitute for, the results prepared in accordance with GAAP. See appendix in Q3'23 earnings reports for reconciliation to most comparable GAAP measure.

# 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

48%



CONSUMER

9%

## WORLD CLASS SUPPLIER

#1

World's largest volume  
supplier of FPGA

Tier 1

Supplier with 40 years  
of innovation



## GROWING CUSTOMER BASE



## GLOBAL SUPPORT



# Lattice Executive Leadership Team



**Jim Anderson**  
CEO



**Sherri Luther**  
CFO



**Pravin Desale**  
Research & Development



**Steve Douglass**  
CTO



**Esam Elashmawi**  
CSMO



**Tracy Feanny**  
General Counsel



**Terese Kemble**  
Human Resources



**Denis Lavallee**  
Mirametrix



**Mark Nelson**  
Sales



**Glenn O'Rourke**  
Operations & Quality



# Holding Ourselves to the Highest ESG Standards

## CULTURE OF INNOVATION



The Low Power Programmable Leader

## ENVIRONMENTALLY CONSCIOUS



Operational Excellence | Supply Chain Management

## INCLUSION & SOCIAL WELLBEING



Our People | Our Communities | Our Culture

## TRANSPARENCY & INTEGRITY



Governance Principles | Ethical Standards | Continuous Improvement

**GSA MOST RESPECTED PUBLIC COMPANY THREE YEARS IN A ROW**



**STRONG & GROWING RECOGNITION FOR CLEANTECH PRODUCT INNOVATION**



# Agenda

1 Company Overview

**2 Products & Solutions**

3 End Markets & Applications

4 Financials



# 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

MachXO5T™-NX



Advanced System Control

CrossLinkU™-NX



Embedded Vision Processing with USB



# 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

LATTICE  
*sensa*AI™



Low Power  
Edge AI

High Performance  
Inferencing Under 1W

Supports Industry Standard  
ML Frameworks

Complete Solution  
Enablement

LATTICE  
mVISION™



Low Power  
Embedded Vision

Flexible Image Sensor  
Bridging & Aggregation

Image Processing  
Integration

Complete Solution  
Enablement

LATTICE  
Sentro™



Cyber Resilient  
Root of Trust

Secure Hardware Creates  
Root-of-Trust for Systems

Cryptographically Secured  
Supply Chain

Protection Against Cloning,  
Counterfeiting, Trojan  
Insertion,  
& Simulation

LATTICE  
Automate™



Accelerating Factory  
Automation

Accelerates industrial  
automation development

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

Complete solution  
enablement

LATTICE  
ORAN™



Enabling ORAN  
Deployment

Enables zero trust security  
and data protection in  
networks

Flexible, Tight Fronthaul  
Synchronization

Acceleration with Low  
Power

LATTICE  
Drive™



Adaptable  
Automotive Design

DisplayPort connectivity

Video scaling up to 4K

Local dimming for contrast  
enhancement

Bridging & networking

# Leadership Computer Vision Capabilities



Presence Detection

Depth Sensing

3D Head & Gesture Tracking

Face ID & Landmarks Tracking

Eye Feature Detection & Tracking

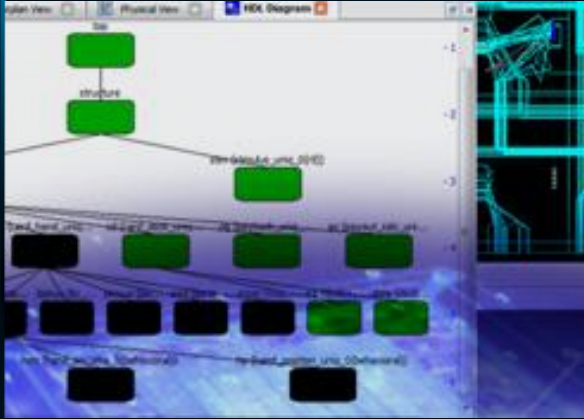
Human Skeleton Detection

Object Detection

**Advanced AI Technology for the Edge**



# Easy-to-use Software



## 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



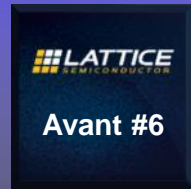
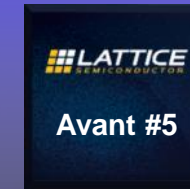
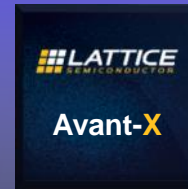
# RAPID PRODUCT PORTFOLIO EXPANSION

## SOFTWARE SOLUTIONS



IN DEVELOPMENT

## MID-RANGE FPGAs



2H 2023

IN DEVELOPMENT

## SMALL FPGAs



IN DEVELOPMENT

# Agenda

- 1 Company Overview
- 2 Products & Solutions
- 3 End Markets & Applications**
- 4 Financials

# Positioned in Growing Markets

## COMMUNICATIONS



5G Wireless  
Switches/Routers

## COMPUTING



Servers  
Client

## INDUSTRIAL



Industrial IoT  
Factory Automation

## AUTOMOTIVE



ADAS  
Infotainment

## CONSUMER

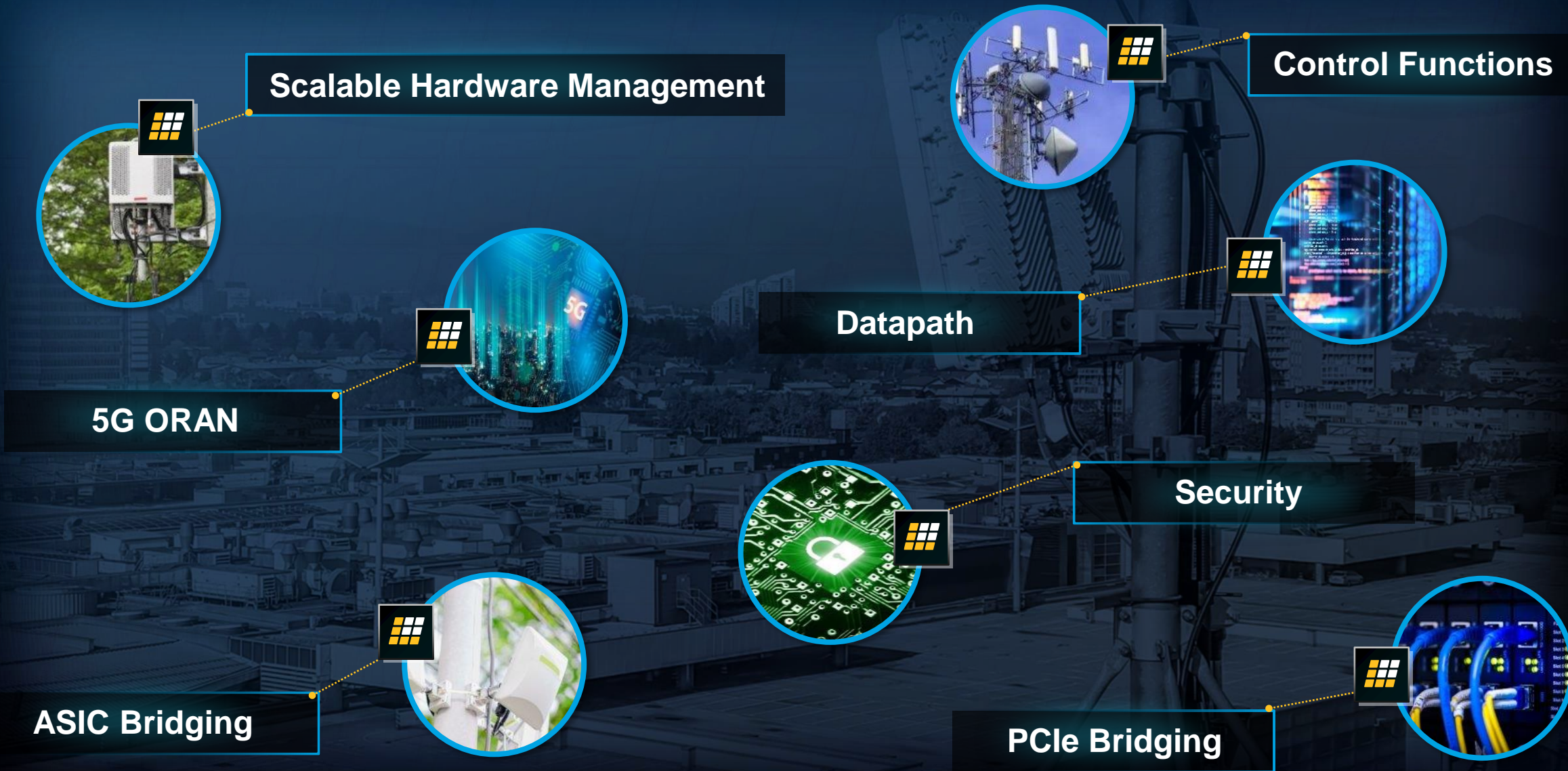


Smart Home  
On-the-Go

**Leading the Industry in Low Power Programmability**



# Lattice Solves Communications Challenges



# Lattice Solves Client Computing Challenges

Computer Vision AI

Image Quality Improvement

Enhanced Security

System Optimization

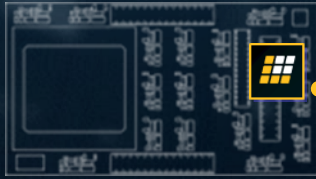
Client Computing is a Greenfield Opportunity for Lattice



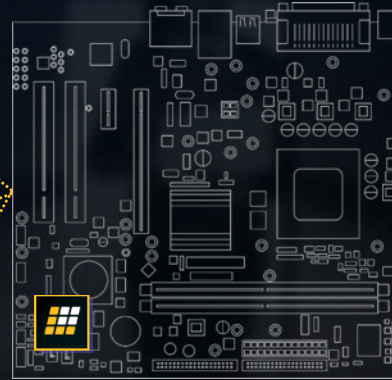
# Lattice Solves Datacenter Challenges

## HARDWARE ACCELERATION

Offload  
Attestation  
Reporting



## MOTHERBOARD (CPU Agnostic)



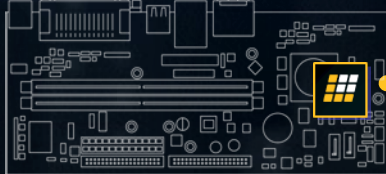
## SECURE CONTROL MODULE

BMC  
PROT / PFR  
Attestation



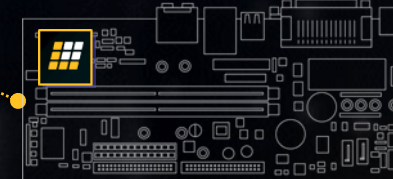
## STORAGE CARD

Key Mgmt  
Hot Swap  
Hot Plug



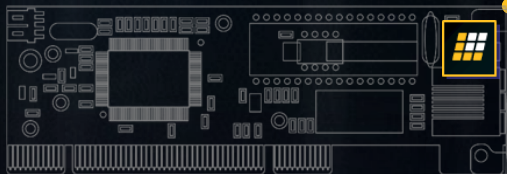
## NETWORK CARD

Power Control  
Reporting  
Offload



## GPU CARD

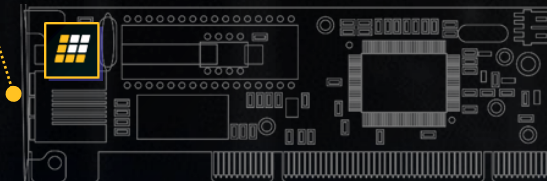
Power Control  
Reporting  
Throttling



Bridging  
I/O Expansion  
Board Control  
Power Sequence  
Signal Aggregation  
Glue Logic  
Fan Control  
Re-Timer

## ADD-IN CARDS

Control  
Bridging  
Aggregation





# Lattice Solves Industrial Challenges

Industrial Networking

Functional Safety

Edge Computing

Programmable Logic Controller

Machine Vision

Touchless Control

Predictive Maintenance

Object Identification

Sensor Bridging

Collision Avoidance

Motor Control

# Lattice Solves Automotive Challenges

## INFOTAINMENT

- De-Fog
- 360° Surround View
- Display Bridging
- ISP

## IN-CABIN AI

- Human Presence Detection
- Driver Monitoring

## ADAS

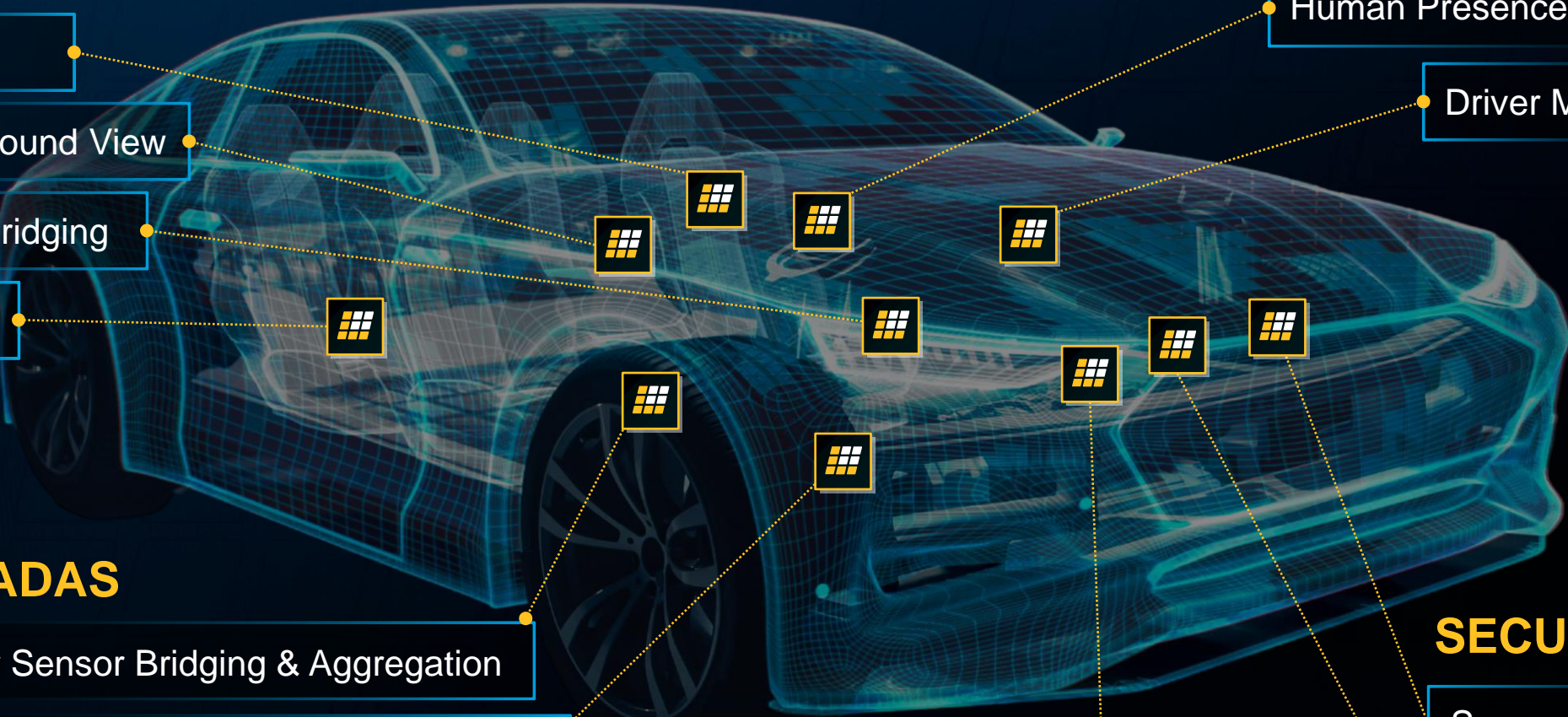
- Radar Sensor Bridging & Aggregation
- Image Sensor Bridging & Aggregation

## HYBRID/ELECTRIC

Inverter / Charger

## SECURITY

- Secure Battery Mgt.
- Secure Boot





# Lattice Solves Consumer Challenges

Drones



AR / VR



Smart Appliance



Smart Speaker



Consumer Robots



Video Surveillance



Wearable



Smart Doorbell



Smart Toys



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# Lattice Semiconductor Q3 2023 Earnings Results Highlights

## REVENUE

↑ **11%** YoY | **1%** QoQ

Record quarterly revenue of \$192.2M

“ We delivered another quarter of solid growth, with Q3 2023 revenue and net income increasing 11% on a year-over-year basis. Today Lattice has the strongest product portfolio in our 40-year history and we continue to rapidly expand our product lineup. We look forward to our Developers Conference in December, when we expect to launch two new members of the Lattice Avant™ mid-range FPGA product family. ”

Jim Anderson, President & CEO

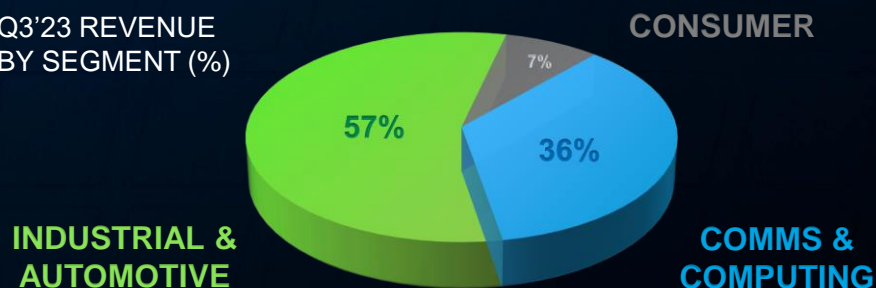
## GROSS MARGIN

↑ **70.6%**

Expanded by 110 bps YoY

## End Market Overview

Q3'23 REVENUE BY SEGMENT (%)



INDUSTRIAL & AUTOMOTIVE

↑ 28% YoY | ↓ -5% QoQ

COMMS & COMPUTING

↓ -6% YoY | ↑ 6% QoQ

## EARNINGS PER SHARE

↑ **10%** YoY

\$0.53 in Q3 2023 vs \$0.48 in Q3 2022

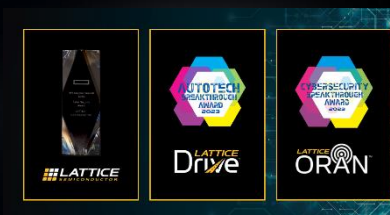
## Recent Product & Corporate Momentum



Launched the Lattice CrossLinkU™-NX FPGA family, based on Lattice Nexus platform



Lattice multi-FPGA solution powering ADAS features in new Mazda SUV models

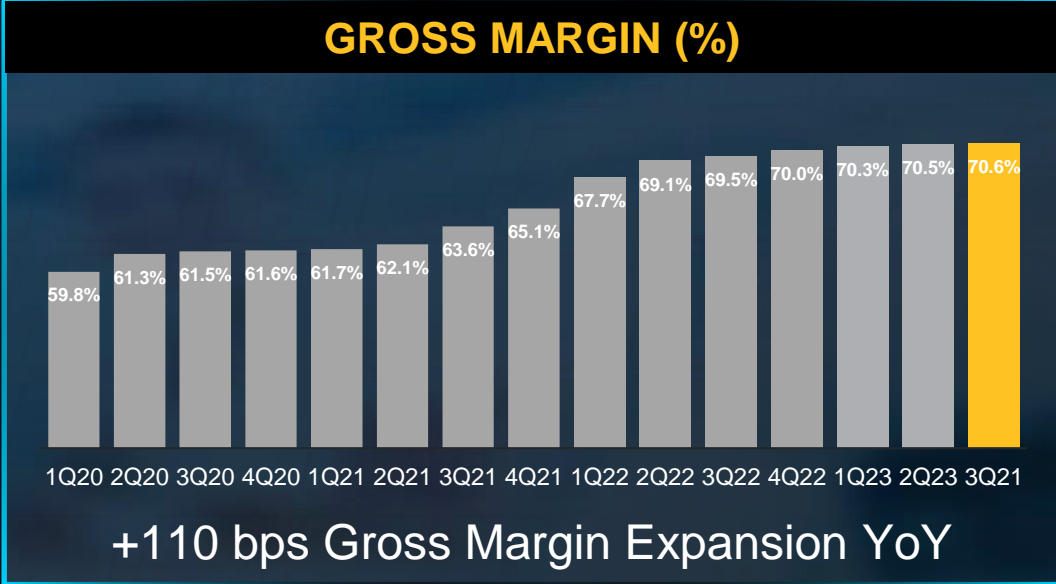
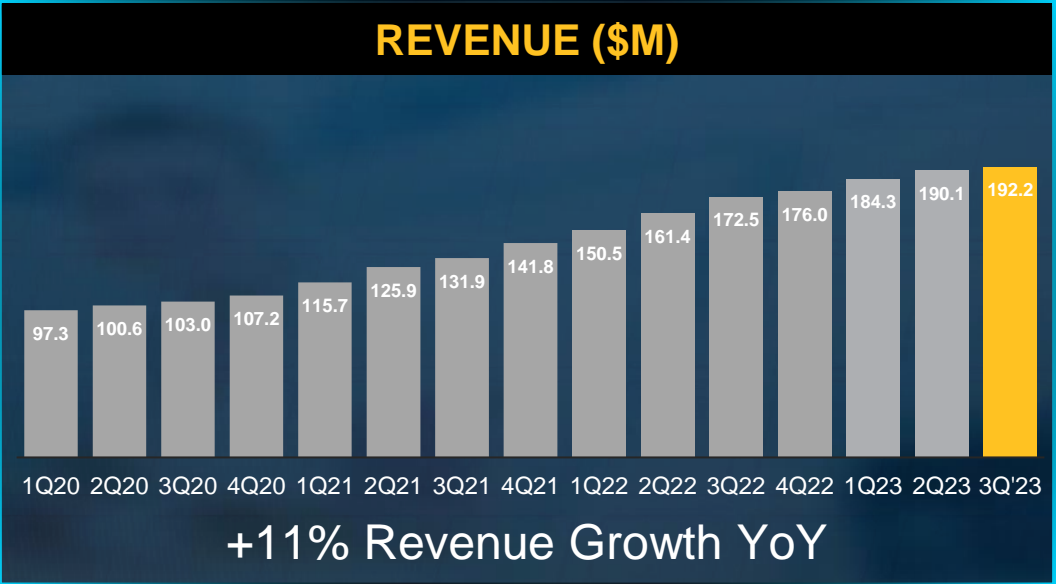


Received multiple industry awards for product innovation and customer satisfaction



Hosting Virtual Developers Conference Dec. 5-7, 2023

# Q3 2023 Financial Highlights

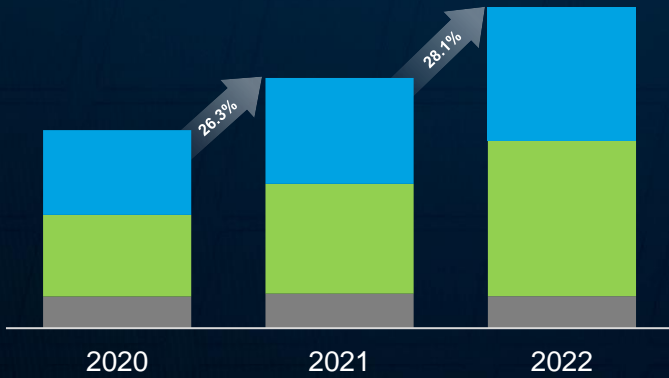




# Strong Financial Execution

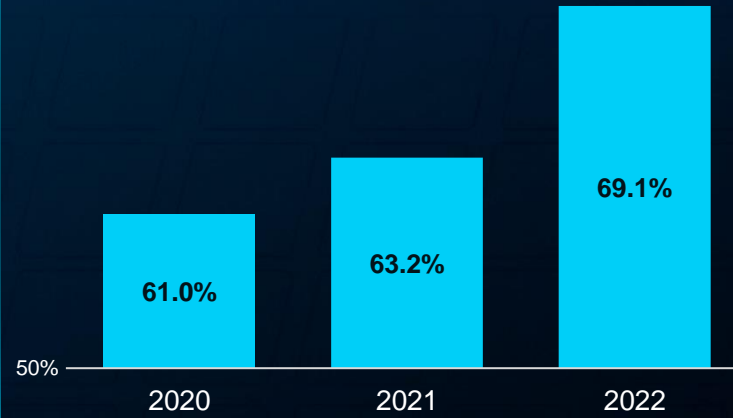
## REVENUE

■ Consumer ■ Industrial & Auto ■ Comms & Computing



Growth in Core Strategic Markets

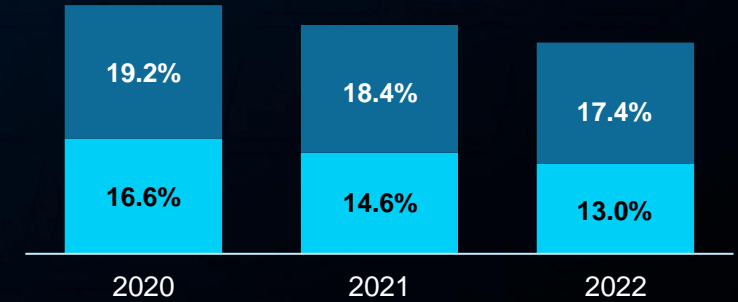
## GROSS MARGIN\*



Gross Margin Expansion

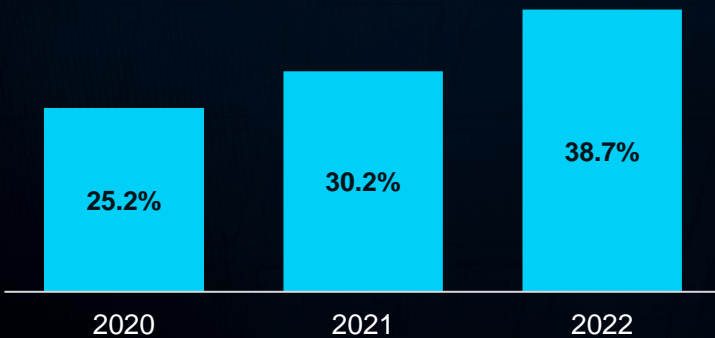
## OPEX\*

■ SG&A ■ R&D



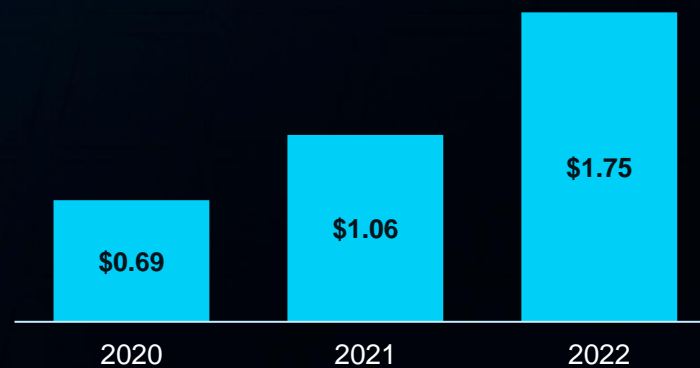
OpEx Discipline

## OPERATING INCOME\*



Record Operating Income

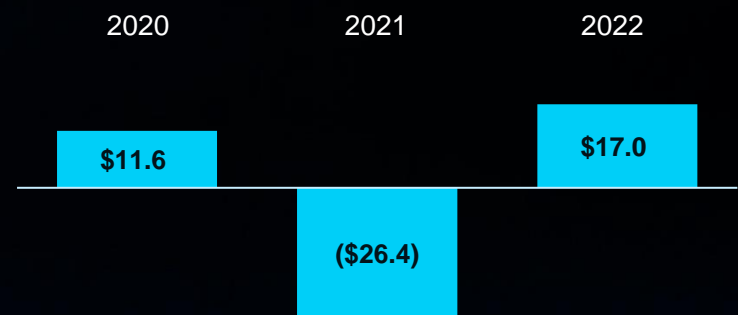
## EARNINGS PER SHARE\*



EPS Expansion

## NET CASH

\$ Millions



Positive Net Cash Position



The Low Power Programmable Leader