



The Low Power Programmable Leader

## Corporate Overview

May 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 Q1'23 and FY'22 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



**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**

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™

<b>CrossLink™-NX</b> 	<b>Certus™-NX</b> 	<b>Mach™-NX</b> 	<b>CertusPro™-NX</b> 	<b>MachXO5™-NX</b> 	<b>MachXO5T™-NX</b> 
--------------------------	-----------------------	---------------------	--------------------------	------------------------	-------------------------

Embedded Vision Processing

General Purpose Processing

Next Gen Hardware Security

Advanced General Purpose Processing

Enhanced System Monitor and Control

Advanced System 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+



LAUNCHED Q2








# Agenda

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

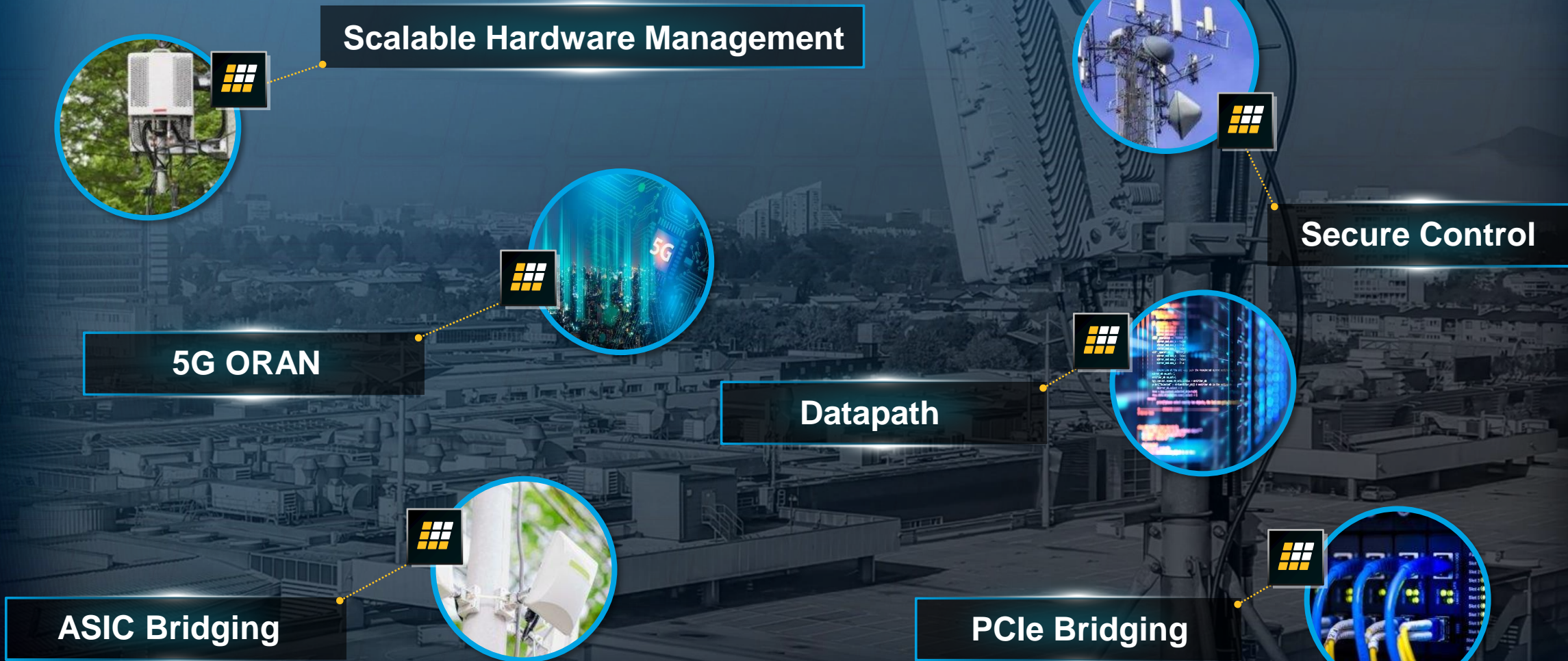


# Positioned in Growing Markets

COMMUNICATIONS	COMPUTING	INDUSTRIAL	AUTOMOTIVE	CONSUMER
				
5G Wireless Switches/Routers	Servers Client	Industrial IoT Factory Automation	ADAS Infotainment	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

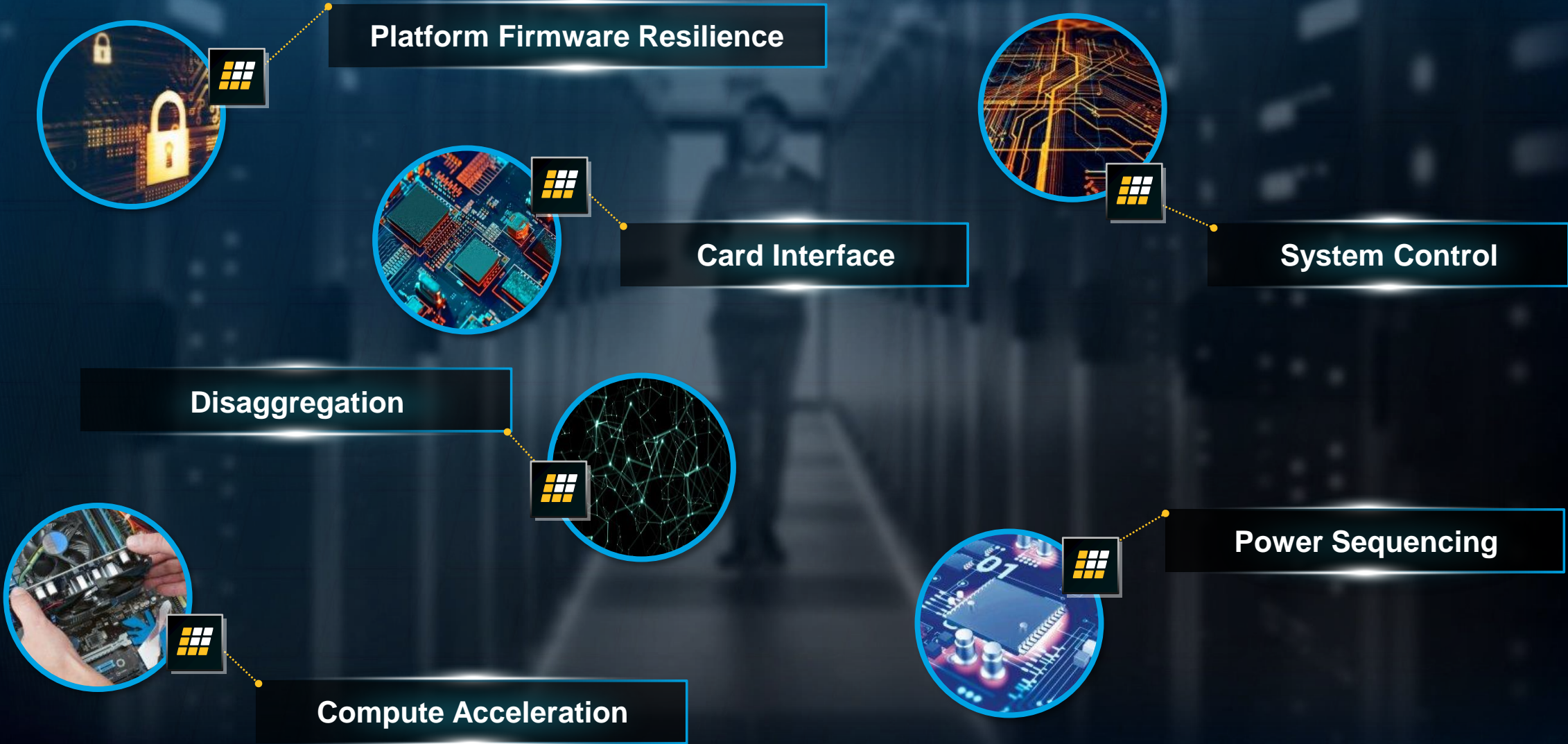
MIPI bridging  
Sensor fusion

## 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

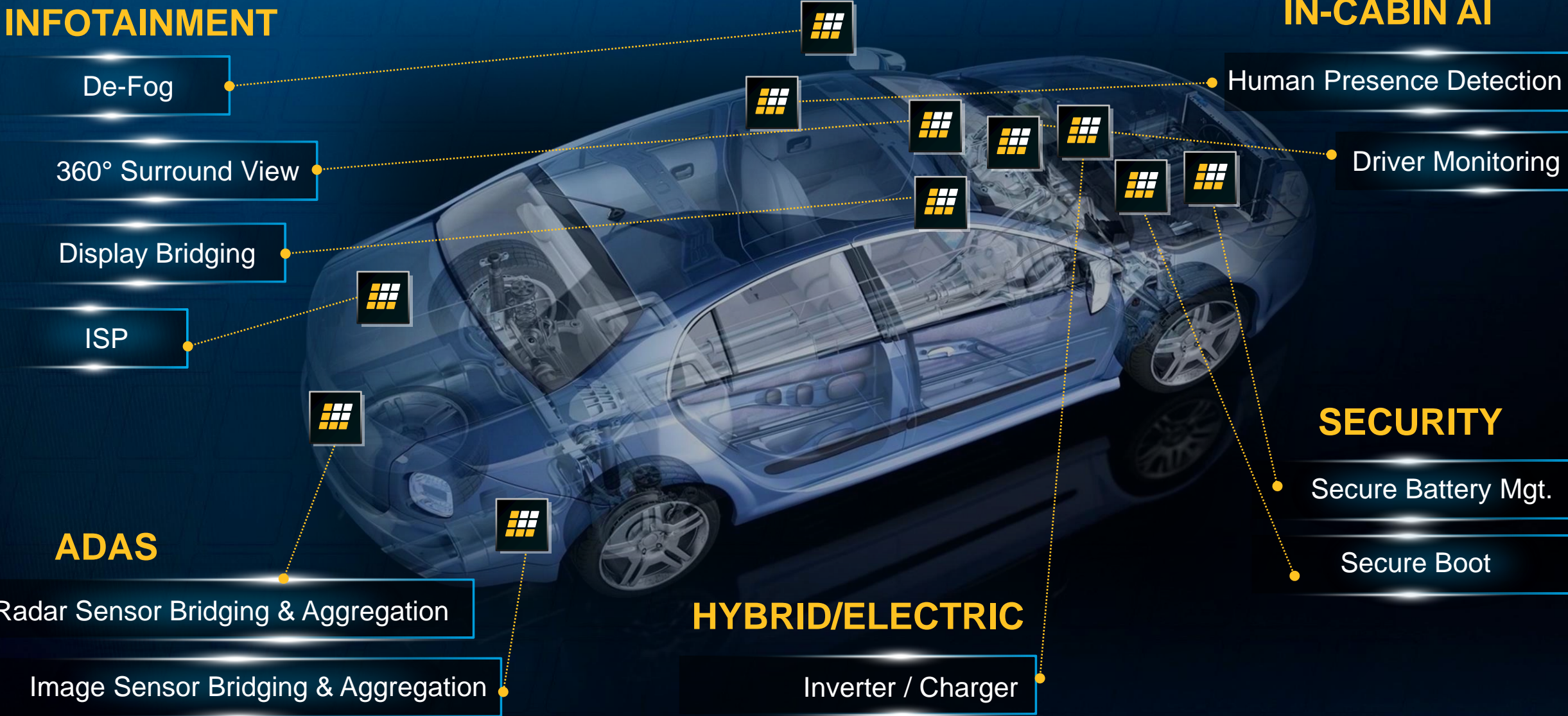
## INFOTAINMENT

De-Fog

360° Surround View

Display Bridging

ISP



## IN-CABIN AI

Human Presence Detection

Driver Monitoring

## SECURITY

Secure Battery Mgt.

Secure Boot

## ADAS

Radar Sensor Bridging & Aggregation

Image Sensor Bridging & Aggregation

## 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
- 2 Products & Solutions
- 3 End Markets & Applications
- 4 Financials**



# Lattice Semiconductor Q1 2023 Earnings Results Highlights

## REVENUE

↑ 22% YoY | 5% QoQ

Record quarterly revenue of \$184.3M

## GROSS MARGIN

↑ 70.3%

Expanded by 260 bps YoY

## EARNINGS PER SHARE

↑ 37% YoY

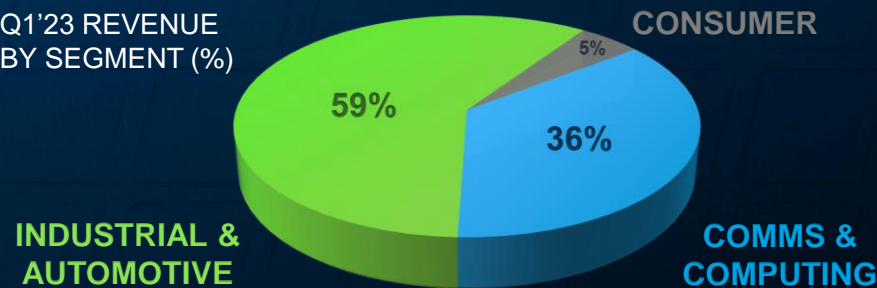
\$0.51 in Q1 2023 vs \$0.37 in Q1 2022

“ Our strong growth and customer momentum continued into the first quarter of 2023 with a 22% year-over-year increase in revenue. We drove 55% year-over-year growth in net income on a GAAP basis and 36% on a non-GAAP basis. While we’re not immune to macro-economic challenges impacting the industry, we have Lattice-specific growth drivers, which position us well for long-term growth in our core markets.”

Jim Anderson, President & CEO

## End Market Overview

Q1'23 REVENUE BY SEGMENT (%)



INDUSTRIAL & AUTOMOTIVE

↑ 55% YoY | ↑ 21% QoQ

COMMS & COMPUTING

↑ 4% YoY | ↓ -9% QoQ

## Recent Product & Corporate Momentum



Introduced MachXO5T-NX, the sixth device family built on the Lattice Nexus™ platform



Launched latest versions of Lattice Automate™, Lattice sensAI™, and Lattice ORAN™ solution stacks

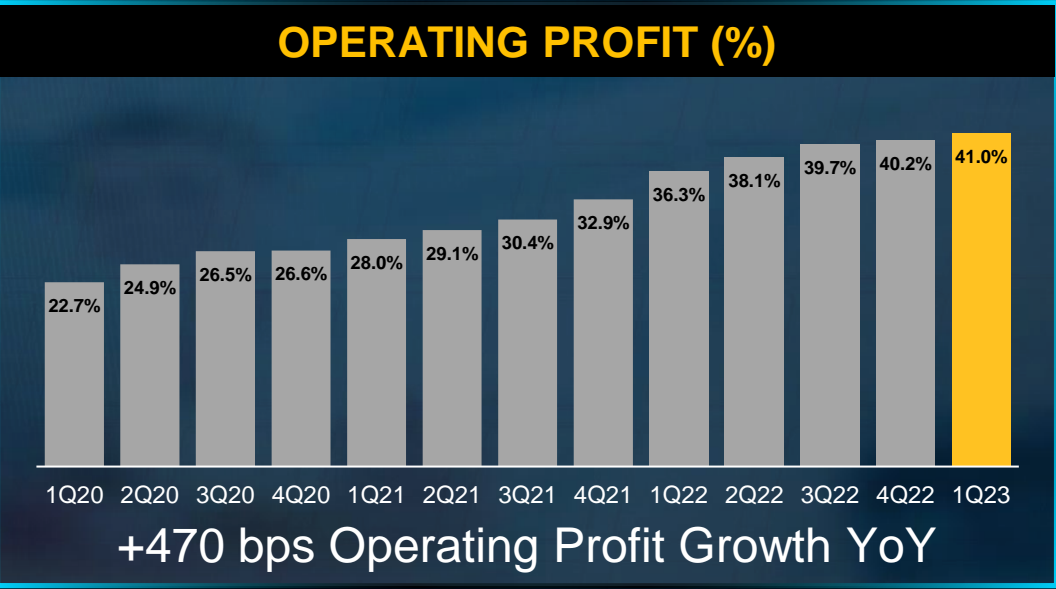
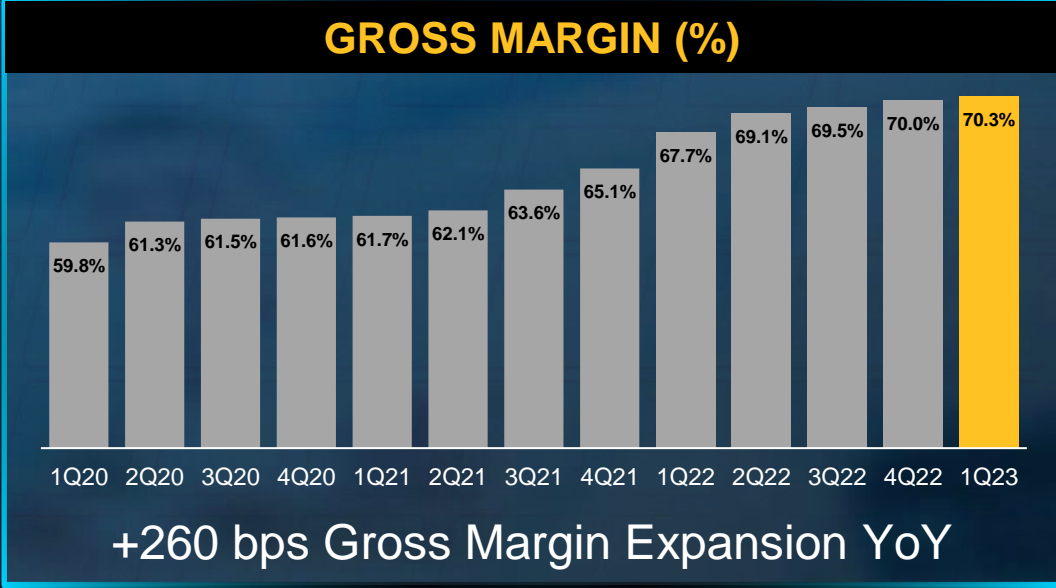


Received multiple awards for industry and innovation leadership



Hosting 2023 Analyst & Investor Day on May 15, 2023

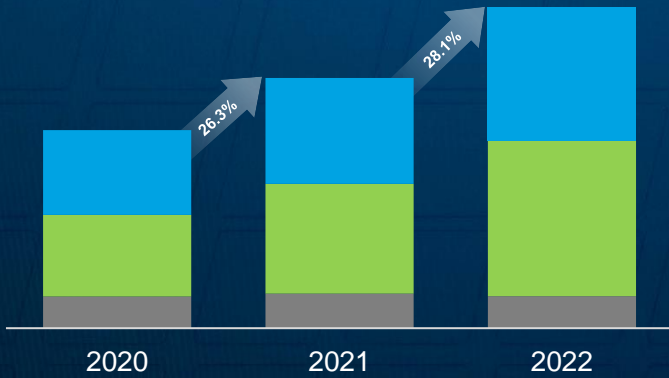
# Q1 2023 Financial Highlights



# Strong Financial Execution

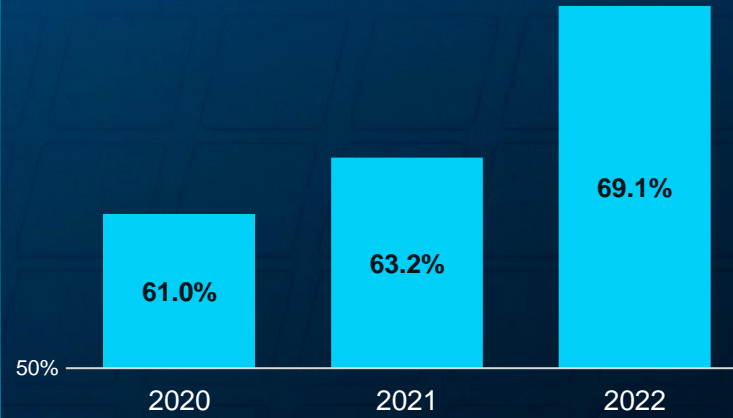
## REVENUE

■ Consumer ■ Industrial & Auto ■ Comms & Computing



Growth in Core Strategic Markets

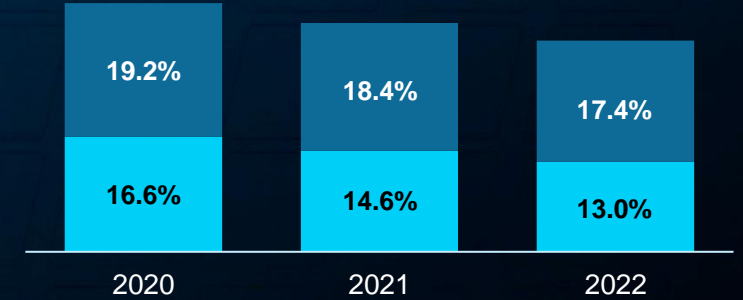
## GROSS MARGIN\*



Gross Margin Expansion

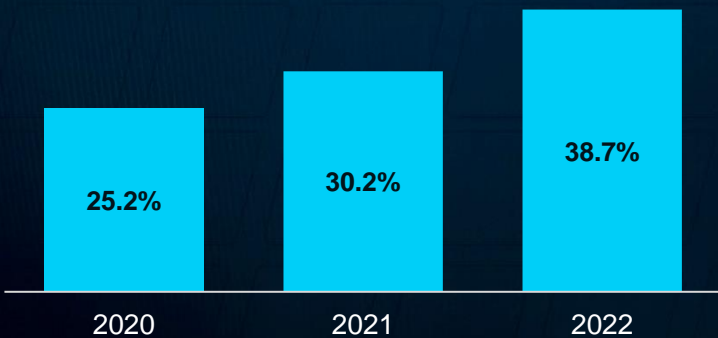
## OPEX\*

■ 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