



The Low Power Programmable Leader

## Corporate Overview

April 2024

# Safe Harbor Statement

## Forward Looking Statements

This presentation may contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 and made pursuant to the safe harbor provisions of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. These statements 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,” “possible,” “potential,” “continue,” “ongoing,” 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, the cyclical nature of the semiconductor industry, pricing and inflationary pressures, competitive actions, international trade disputes and sanctions, and the potential impact of global pandemics, and other significant risks and uncertainties that are beyond our ability to predict or control, including those risks more fully described in our filings with the Securities and Exchange Commission, including Item 1A in Lattice’s most recent Annual Report on Form 10-K, especially those under the captions “Risk Factors” and “Management’s Discussion and Analysis of Financial Condition and Results of Operations”, 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. We do not intend to, and undertake no obligation 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, we have provided non-GAAP financial information in this presentation, including non-GAAP gross margin, gross margin percentage, earnings per share, operating profit, R&D expense, SG&A expense, 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 the Appendix in our Q1'24 and FY'23 earnings reports for reconciliation to most comparable GAAP measure.

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**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

35%



INDUSTRIAL &  
AUTOMOTIVE

59%



CONSUMER

6%

## 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



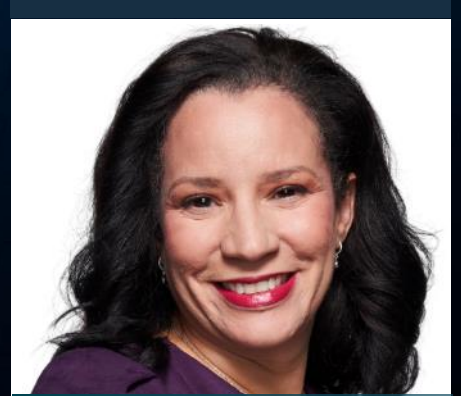
**Sherri Luther**  
CFO



**Pravin Desale**  
Research & Development



**Esam Elashmawi**  
CSMO



**Tracy Feanny**  
General Counsel



**Terese Kemble**  
Human Resources



**Denis Lavallee**  
Miramatrix



**Mark Nelson**  
Sales



**Glenn O'Rourke**  
Operations & Quality



# Holding Ourselves to the Highest Corporate Stewardship Standards

## CULTURE OF INNOVATION



## ENVIRONMENTALLY CONSCIOUS



## INCLUSION & SOCIAL WELLBEING



## TRANSPARENCY & INTEGRITY



### GSA MOST RESPECTED PUBLIC COMPANY FOUR YEARS IN A ROW



### STRONG & GROWING RECOGNITION FOR CLEANTECH PRODUCT INNOVATION



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**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™

Avant™E



Edge-optimized  
Processing

Avant™G



Cutting-edge General  
Purpose Processing

Avant™X



Advanced  
Connectivity

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**<sup>™</sup>

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



## LATTICE **AVANT**<sup>™</sup>

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



**LOWER  
POWER**



**FASTER  
PERFORMANCE**



**SMALLER  
SIZE**



# Software Solution Stack Portfolio

**LATTICE**  
*sensAI*™



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**  
*Sentri*™



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



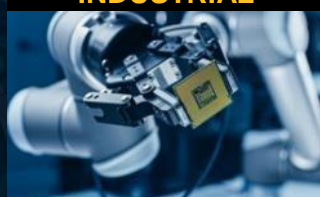
CLIENT



AUTOMOTIVE



INDUSTRIAL



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

LATTICE  
*sensAI*™

m*VISION*™

LATTICE  
Sentro™

LATTICE  
Auto*mate*™

LATTICE  
ORAN™

LATTICE  
Drive™

LATTICE  
DIAMOND  
DESIGN SOFTWARE

LATTICE  
PROPEL™

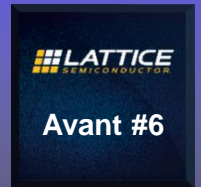
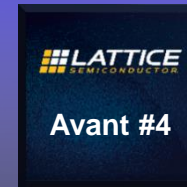
LATTICE  
RADIANT™  
DESIGN SOFTWARE

Glance  
by MIRAMETRIX™



IN DEVELOPMENT

## MID-RANGE FPGAs



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

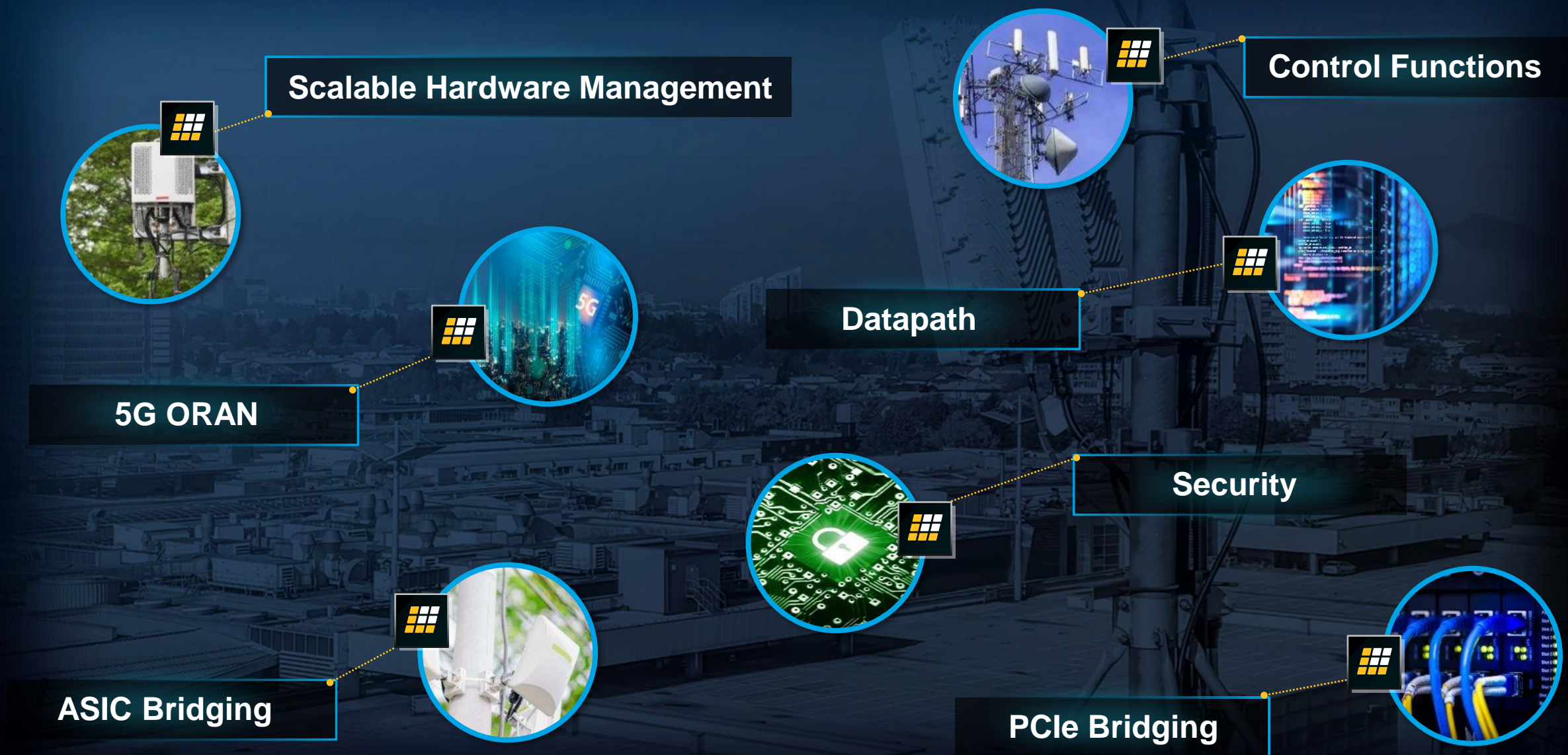


Smart Home  
On-the-Go

## Leading the Industry in Low Power Programmability



# Lattice Solves Communications Challenges



# Lattice Solves Client Computing Challenges

**Computer Vision AI**

**Image Quality Improvement**

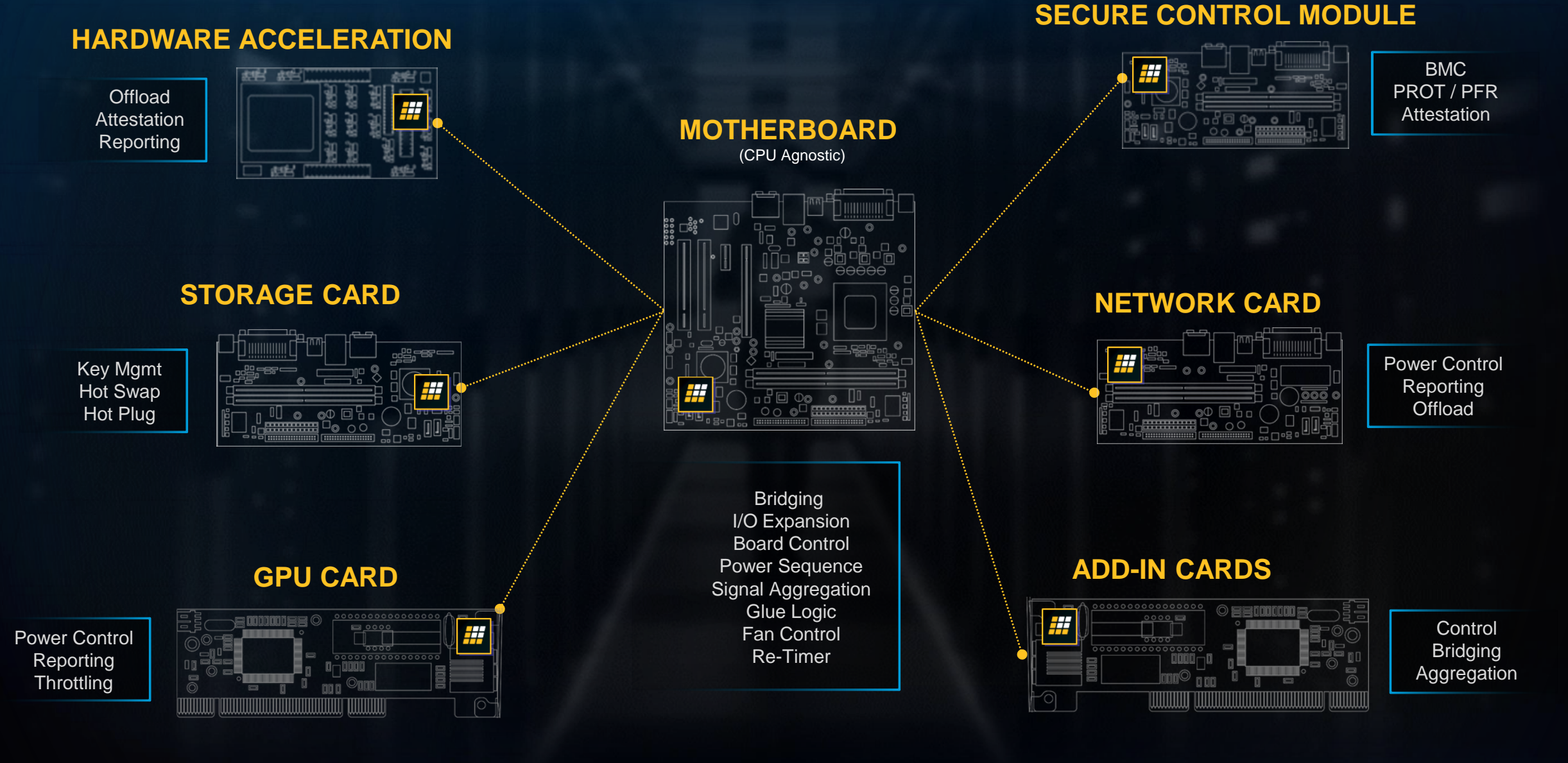
**Enhanced Security**

**System Optimization**

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

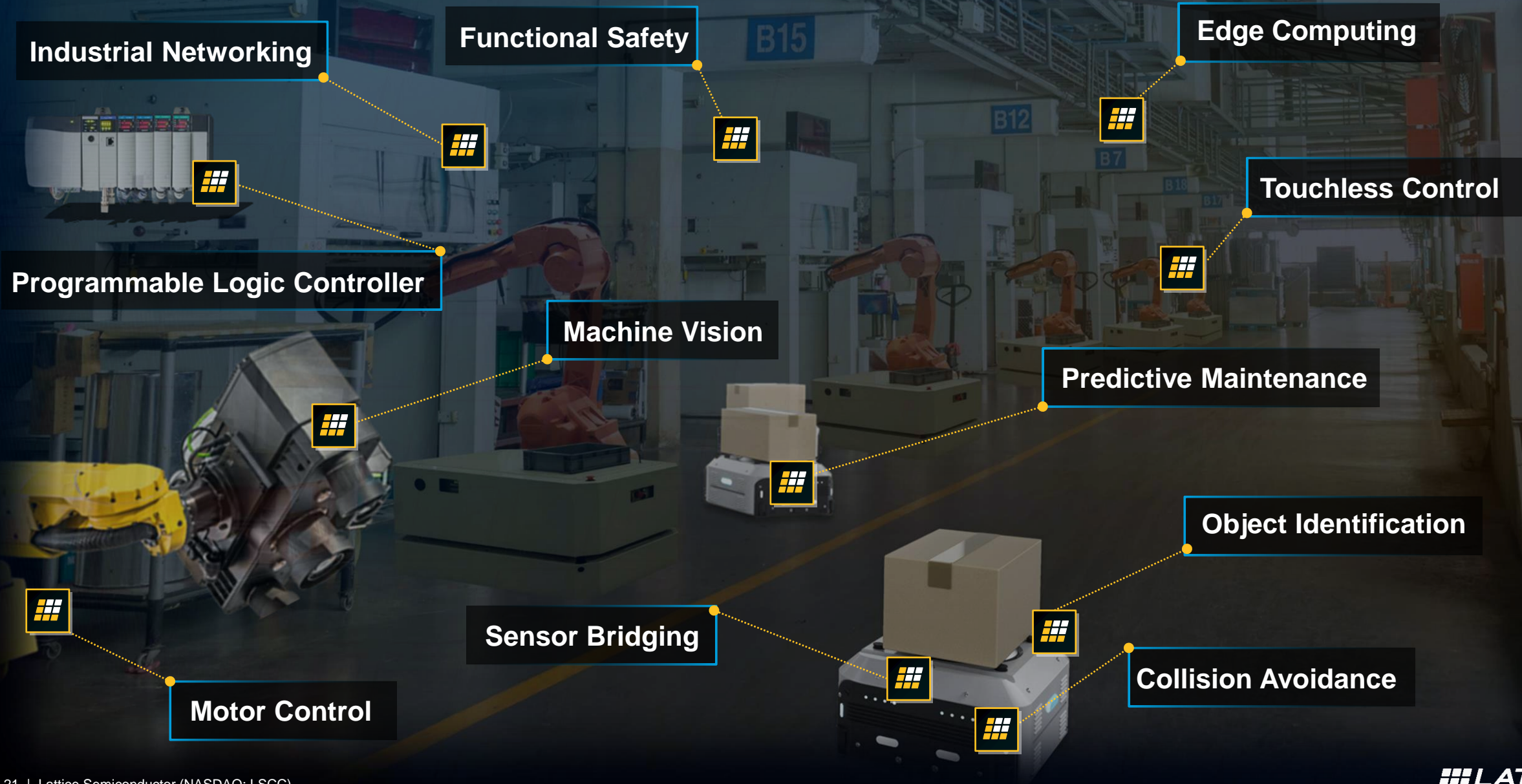


# Lattice Solves Datacenter Challenges





# Lattice Solves Industrial Challenges



# Lattice Solves Automotive Challenges

## INFOTAINMENT

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

## IN-CABIN AI

- Human Presence Detection
- Driver Monitoring

## ADAS

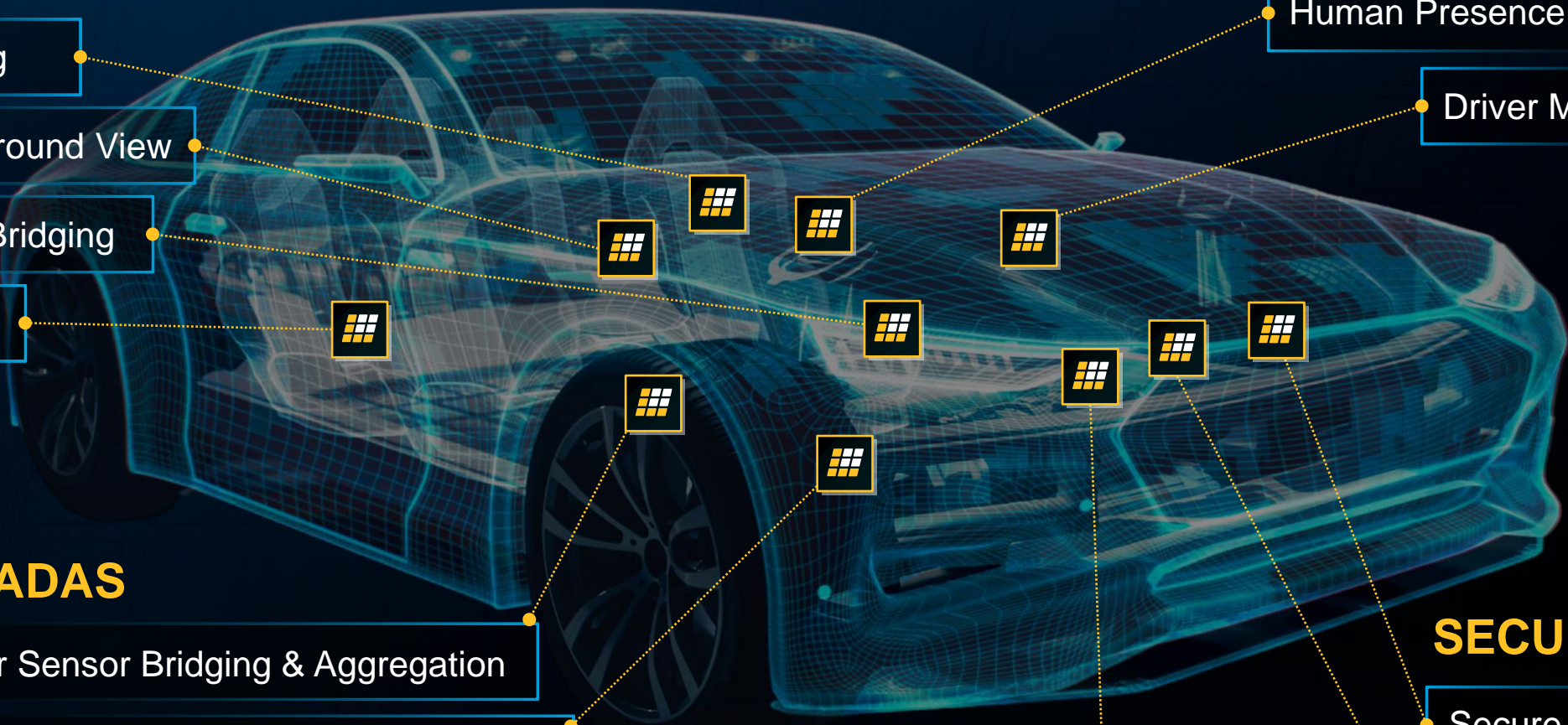
- Radar Sensor Bridging & Aggregation
- Image Sensor Bridging & Aggregation

## HYBRID/ELECTRIC

Inverter / Charger

## SECURITY

- Secure Battery Mgt.
- Secure Boot





# Lattice Solves Consumer Challenges

Drones



AR / VR



Smart Speaker



Smart Appliance



Consumer Robots



Video Surveillance



Wearable



Smart Doorbell



Smart Toys





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# Lattice Semiconductor Q1 2024 Earnings Results

## REVENUE

↓ 24% YoY | 17.5% QoQ

Quarterly revenue of \$140.8M

“First quarter 2024 results came in as expected and reflect the near-term impact of cyclic industry headwinds. Despite near-term headwinds, the Company is well-positioned for the long-term as we execute on the largest product portfolio expansion in our history.”

Jim Anderson, President & CEO

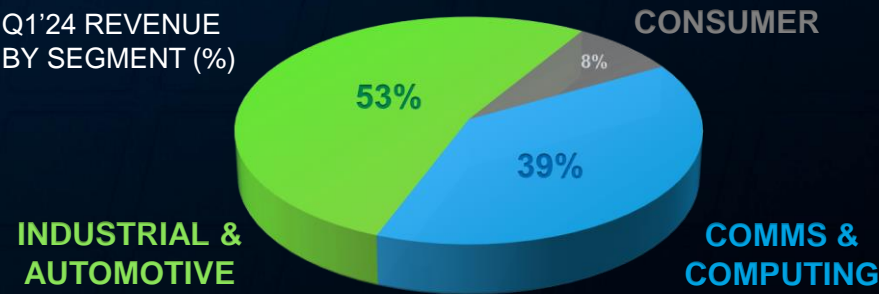
## GROSS MARGIN

↓ 69%

Declined by 130 bps YoY

## End Market Overview

Q1'24 REVENUE  
BY SEGMENT (%)



INDUSTRIAL & AUTOMOTIVE

↓ -31% YoY | ↓ -25% QoQ

COMMS & COMPUTING

↓ -18% YoY | ↓ -7% QoQ

## EARNINGS PER SHARE

↓ 43% YoY

\$0.29 in Q1 2024 vs \$0.51 in Q1 2023

## Recent Product & Corporate Momentum



Lattice hardware and software power AI computer vision on new Dell Latitude models



Launched latest version of Lattice ORAN™ solution stack, adding new 5G datapath features



Enhanced Lattice Radiant software with expanded functional safety and reliability capabilities



Received multiple industry awards for company and product leadership

# Q1 2024 Financial Results

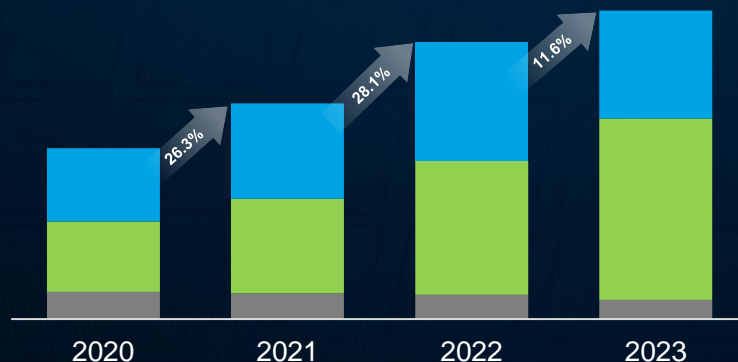




# Strong YoY Financial Execution

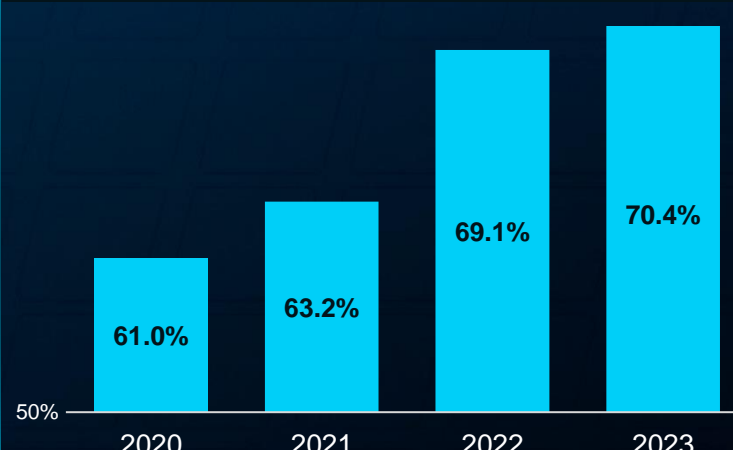
## REVENUE

■ Consumer ■ Industrial & Auto ■ Comms & Computing



Growth in Core Strategic Markets

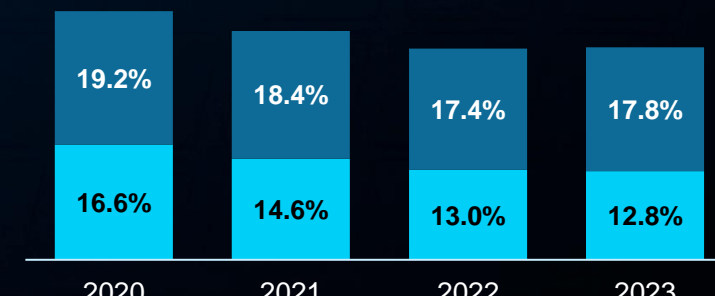
## GROSS MARGIN\*



Gross Margin Expansion

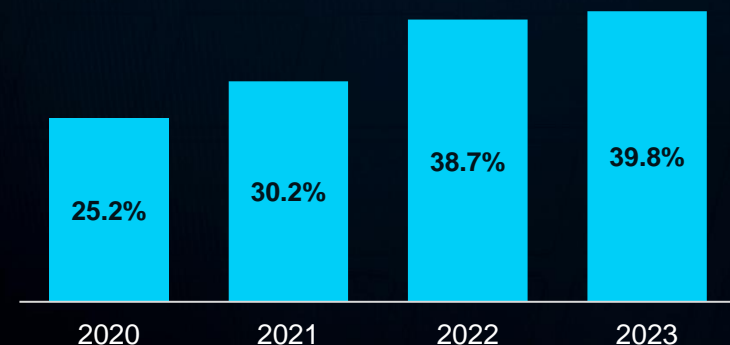
## OPEX\*

■ 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