



The Low Power Programmable Leader

## Corporate Overview

November 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 Q3'24 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



**Ford Tamer**  
CEO



**Pravin Desale**  
Research & Development



**Esam Elashmawi**  
CSMO



**Tracy Feanny**  
General Counsel



**Terese Kemble**  
Human Resources



**Denis Lavallee**  
Mirametrix



**Mark Nelson**  
Sales



**Divyesh Shah**  
Operations & Quality



**Tonya Stevens**  
Interim CFO and  
CVP, Corporate Controller

# Holding Ourselves to the Highest Corporate Stewardship Standards

## CULTURE OF INNOVATION



## ENVIRONMENTALLY CONSCIOUS



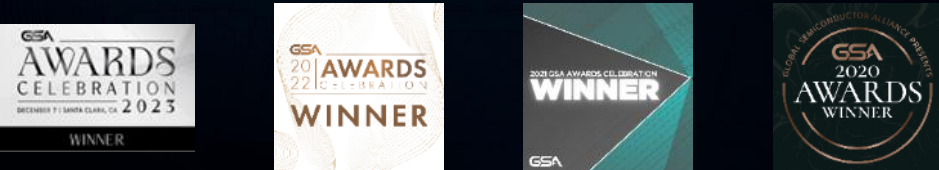
## INCLUSION & SOCIAL WELLBEING



## TRANSPARENCY & INTEGRITY



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



### STRONG & GROWING RECOGNITION FOR CLEANTECH PRODUCT INNOVATION



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Company Overview

2

**Products & Solutions**

3

End Markets & Applications

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Financials




# 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



**MachXO5D™-NX**

Advanced Secure  
Control

# FPGA PLATFORM LEADERSHIP

## LATTICE NEXUS™

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



## LATTICE AVANT™

Architected for applications requiring up to 25G SERDES and over 600k SLCs



**LOWER  
POWER**



**FASTER  
PERFORMANCE**



**SMALLER  
SIZE**


# Software Solution Stack Portfolio



**LATTICE sensAI™**

**Low Power Edge AI**

- High Performance Inference 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

# 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



# Agenda

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

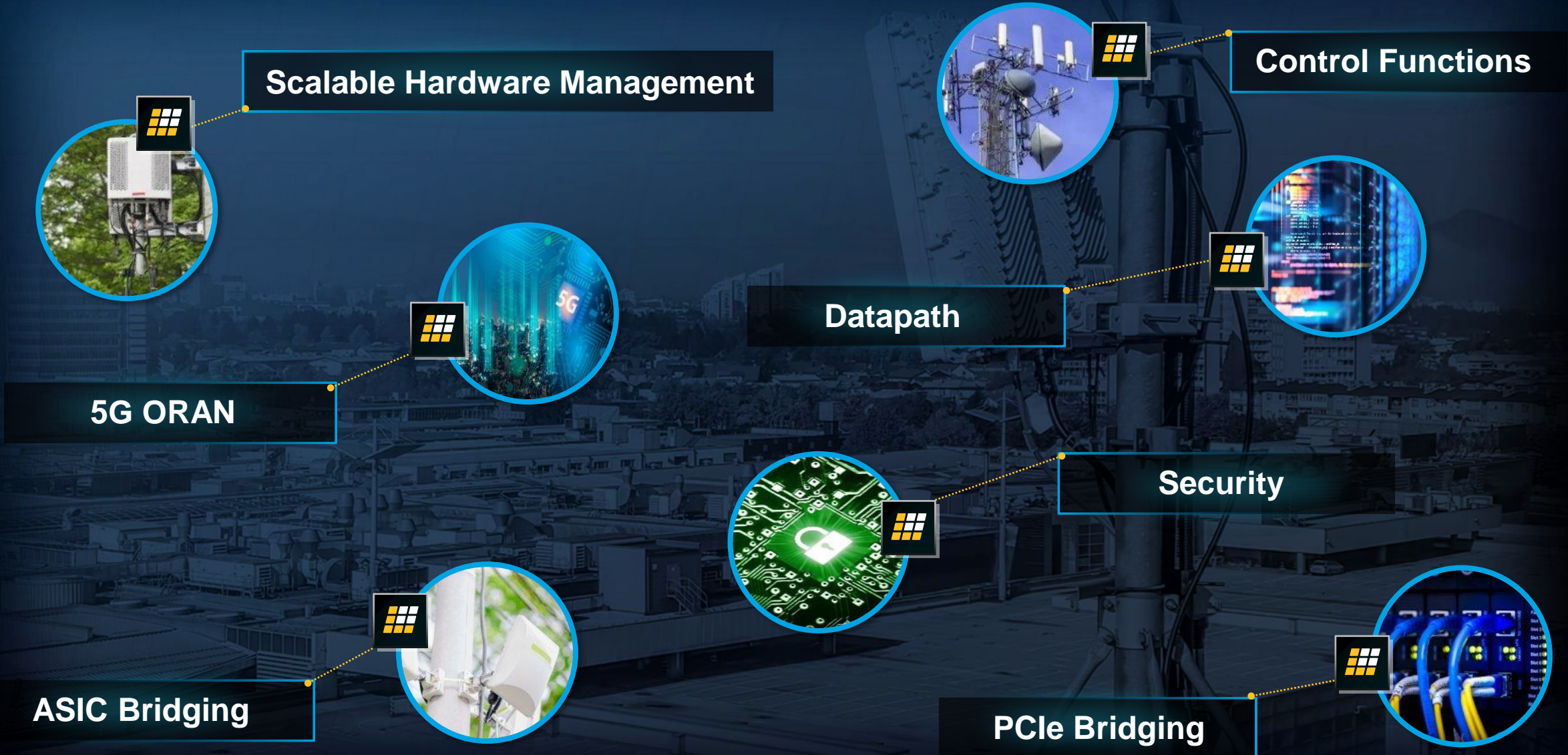
# Positioned in Growing Markets

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

Computer Vision AI

Image Quality Improvement

Enhanced Security

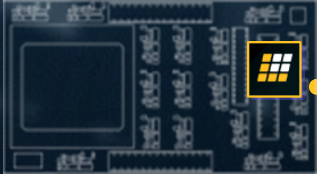
System Optimization

Client Computing is a Greenfield Opportunity for Lattice

# Lattice Solves Datacenter Challenges

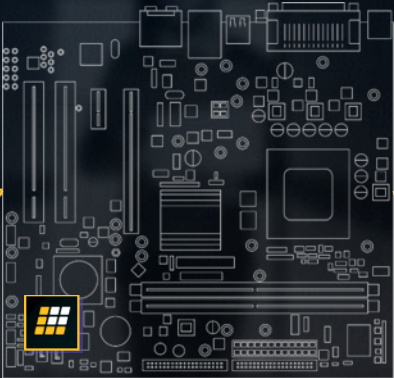
## HARDWARE ACCELERATION

Offload  
Attestation  
Reporting



## MOTHERBOARD

(CPU Agnostic)



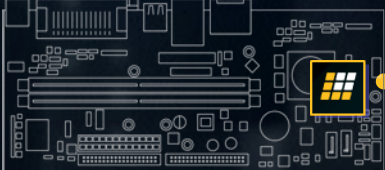
## SECURE CONTROL MODULE

BMC  
PROT / PFR  
Attestation



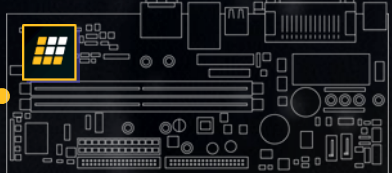
## STORAGE CARD

Key Mgmt  
Hot Swap  
Hot Plug



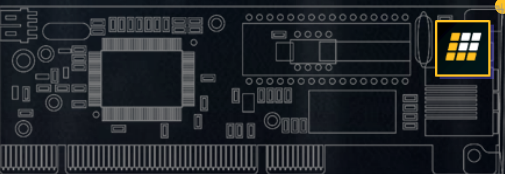
## NETWORK CARD

Power Control  
Reporting  
Offload



## GPU CARD

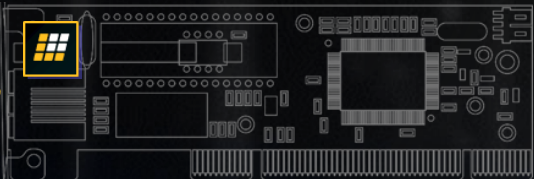
Power Control  
Reporting  
Throttling



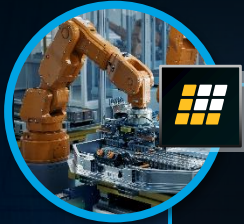
Bridging  
I/O Expansion  
Board Control  
Power Sequence  
Signal Aggregation  
Glue Logic  
Fan Control  
Re-Timer

## ADD-IN CARDS

Control  
Bridging  
Aggregation



# Lattice Solves Industrial Challenges



## Smart Factory

- Collision Avoidance
- Edge Computing
- Functional Safety
- Industrial Networking
- Machine Vision
- Motor Control
- Predictive Maintenance
- Programmable Logic Control
- Object Identification
- Sensor Fusion
- Robotics



## Test & Measurement

- High-Speed Data Acquisition
- Signal Processing
- Emulation and Validation
- Pattern Generation and Analysis
- Timing Analysis
- Error Detection and Correction
- Jitter and Noise Measurement
- Power Analysis
- Temperature and Stress Testing
- Portables and Handhelds



## Medical

- Digital Endoscopy Systems
- MRI and CT Image Processing
- Ultrasound Signal Processing
- Electrocardiogram Signal Processing
- X-ray Processing
- Blood Analysis Equipment
- Health Monitors
- Robotic Surgery Assistants
- Secure Medical Data Processing
- Patient Monitoring Systems



## Aerospace & Defense

- Radar Signal Processing
- Avionics Control Systems
- Digital Beamforming
- Satellite Communications
- GPS and Navigation Systems
- Infrared and Optical Image Processing
- Ruggedized Systems for Harsh Environments
- Secure Communications



## Broadcast / ProAV

- Video Encoding/Decoding
- Live Video Streaming
- High-Resolution Video Processing
- Video Scaling and De-interlacing
- Color Correction and Enhancement
- Image Stabilization
- Audio Processing and Mixing
- Multi-Protocol Bridging
- Real-Time Graphics Overlays
- Low-Latency Switching

# Lattice Solves Automotive Challenges

## INFOTAINMENT

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

## IN-CABIN AI

- Human Presence Detection
- Driver Monitoring

## ADAS

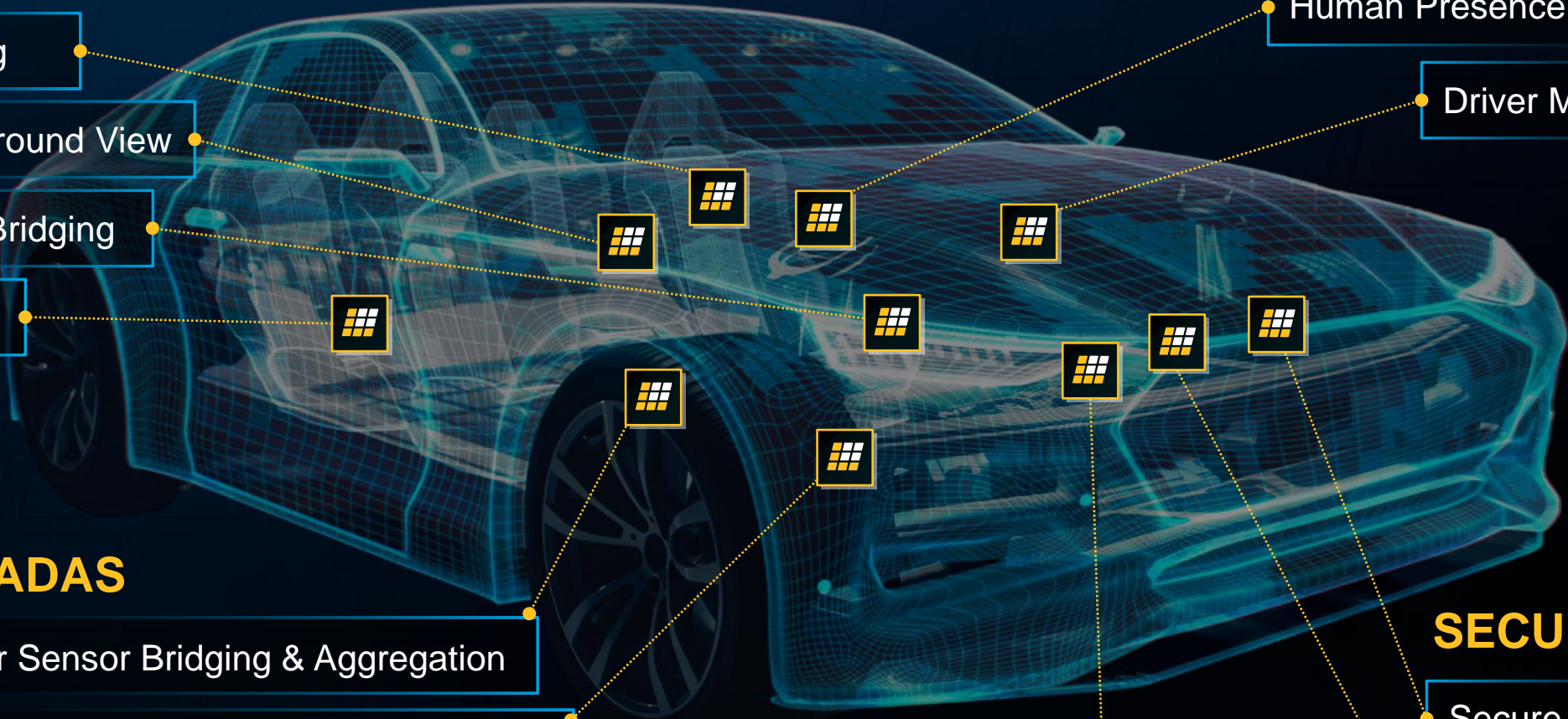
- Radar Sensor Bridging & Aggregation
- Image Sensor Bridging & Aggregation

## 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



# Lattice Drives AI Innovation

## Gen AI Servers

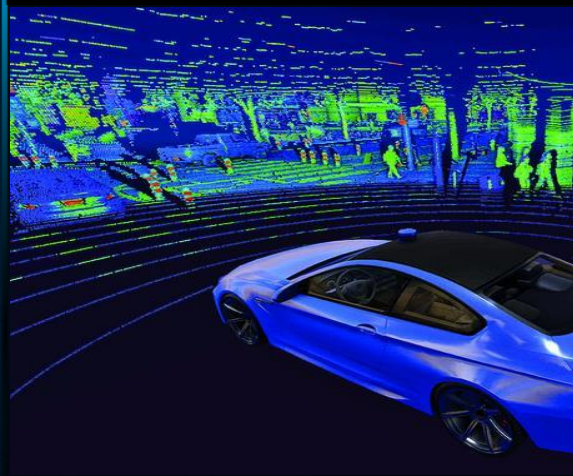


### Leading Control and Security in AI Servers

Up to >50 FPGAs per server rack

Deployed at majority of Hyperscalers and OEM/ODMs

## Sensor Proliferation



### Data Fusion and Optimized Streaming

Partnership with Nvidia to simplify sensor connectivity

Diverse sensor connectivity in autonomous systems

## Intelligent Edge



### Low Power Vision Processing

40M+ devices shipped with advanced computer vision experiences

Shipping at top Client OEMs

Enabling AI from hybrid cloud to the intelligent edge with low power FPGAs and software

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# Lattice Semiconductor Q3 2024 Earnings Results

## REVENUE

\$127.1M

Up 2% QoQ & Down 34% YoY

## GROSS MARGIN

69%

Flat QoQ & Down 160 bps YoY

## EARNINGS PER SHARE

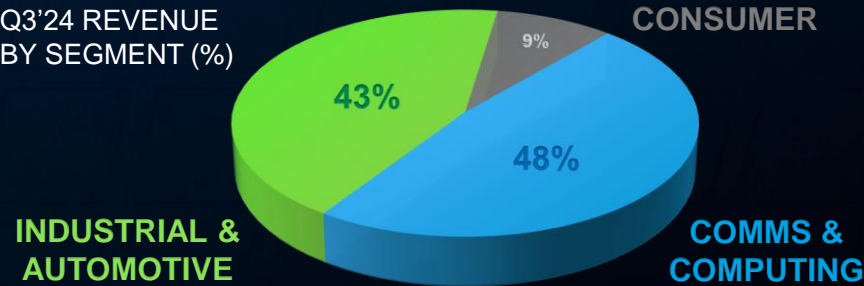
\$0.24

Vs \$0.23 in Q2 2024

“Through my meetings with employees, customers, and partners, since joining Lattice, I’m even more convinced that we are in an excellent position to expand market share over the long-term. Third quarter 2024 results were inline with the Company’s prior expectations, which reflects the disciplined execution of our strategy and a continued focus on operational efficiency. After careful consideration, we proactively took action in the third quarter to better align our resources to the current business level, while maintaining the stability and integrity of our leadership product roadmap, customer support and demand creation infrastructure. Importantly, we do not expect any additional reductions will be needed. While we expect continued near-term industry headwinds, I am excited about the opportunity to build on Lattice’s strong foundation.” Ford Tamer, CEO

## End Market Overview

Q3'24 REVENUE BY SEGMENT (%)



COMMS & COMPUTING

↓ -11% YoY | ↑ 12% QoQ

INDUSTRIAL & AUTOMOTIVE

↓ -51% YoY | ↓ -7% QoQ

## Recent Product & Corporate Momentum

**WELCOME FORD TAMER, LATTICE CEO**

Announced the appointment of Ford Tamer as CEO and to the company’s Board of Directors

**Dell Technologies Dell XPS 13 Laptop**  
(Model 9380)

Powered by Lattice AI computer vision hardware and software

Lattice’s hardware and software solution powers AI computer vision in new Dell XPS AI PC

**LAUNCHING TODAY**

**NEW LOGIC-OPTIMIZED GENERAL PURPOSE FPGAS**

NEW capacity points with migratable logic and package options

Leadership power efficiency with PCIe® Gen 2

Industry-leading I/O optimization in smallest form factor

High reliability and device security

**Certus-NX**

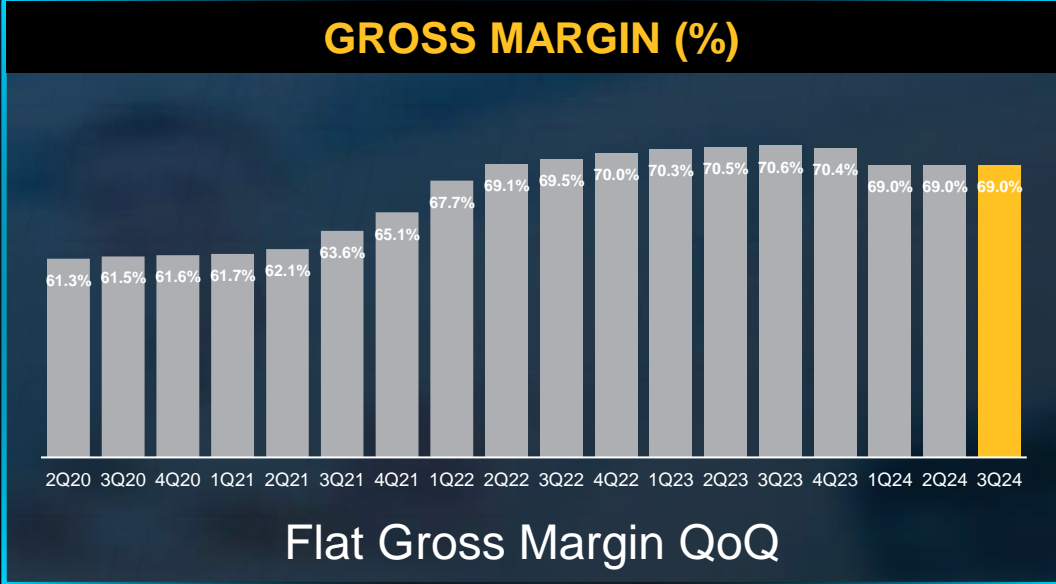
Expanded small FPGA portfolio with two new Certus-NX capacities, and multiple package options

**GUEST PRESENTATIONS & DEMONSTRATIONS**

Rohit Pillai (Microsoft), Sebastian Pastor (SICK), Mike Walters (Intel), Karan Reddy (Dell)

Announced Guest Speaker Lineup for Lattice Developers Conference 2024 event on Dec. 10-11, 2024

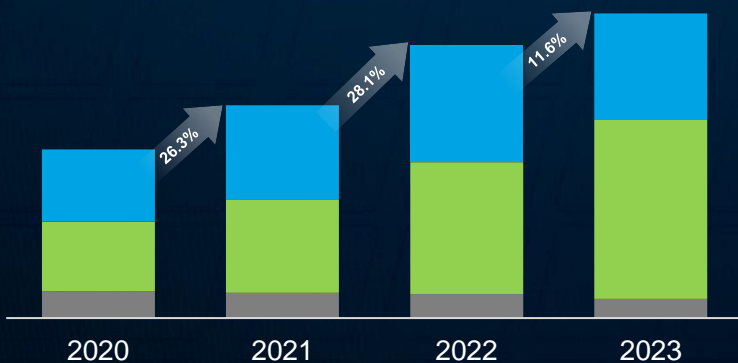
# Q3 2024 Financial Results



# Strong YoY Financial Execution

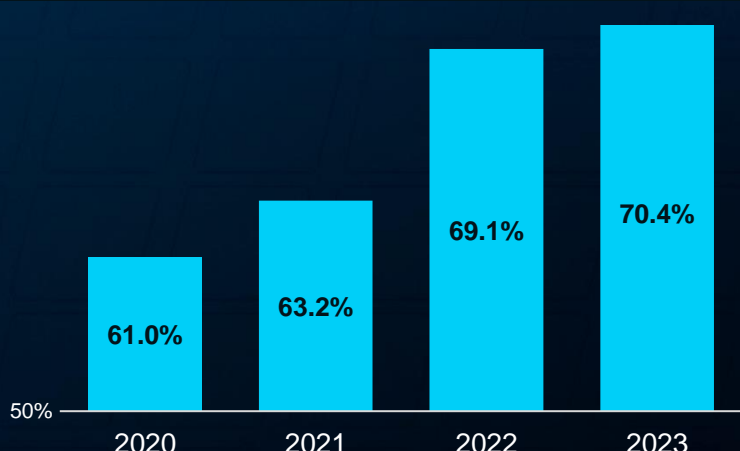
## REVENUE

■ Consumer ■ Industrial & Auto ■ Comms & Computing



Growth in Core Strategic Markets

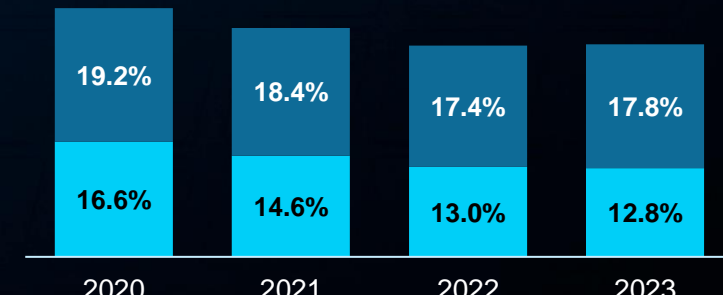
## GROSS MARGIN\*



Gross Margin Expansion

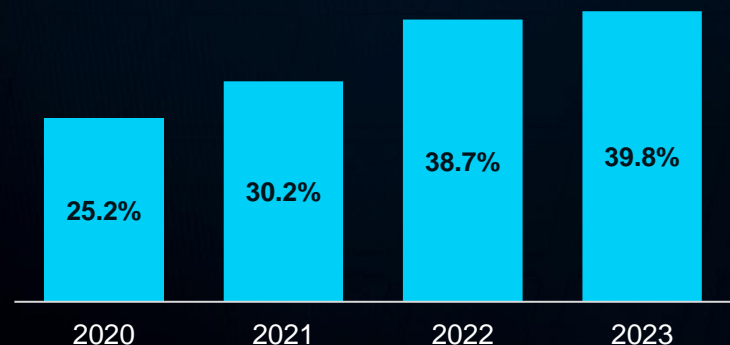
## OPEX\*

■ 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