



The Low Power Programmable Leader

Corporate Overview

February 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

42%



INDUSTRIAL & AUTOMOTIVE

44%



CONSUMER & LICENSING SERVICES

14%

WORLD CLASS SUPPLIER

#1

World's largest volume supplier of FPGA

Tier 1

Supplier with 38 years of innovation



GROWING CUSTOMER BASE



GLOBAL SUPPORT



Lattice Executive Leadership Team



Jim Anderson
CEO



Sherri Luther
CFO



Mark Nelson
Sales



Esam Elashmawi
Marketing & Strategy



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

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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

BROAD FAMILY OF LOW POWER FGAs

GENERAL PURPOSE



Addresses a broad range of applications across multiple markets

- Lowest power and smallest package with up to 10G SERDES and 150K LUTs
- Industry-leading reliability and efficient processing with class-leading on-chip memory

FPGA FAMILIES TAILORED FOR SPECIFIC NEEDS

VIDEO CONNECTIVITY



Optimized for high-speed video and sensor applications

- First FPGA with hardened MIPI D-PHY
- Highest performance at lowest power

ULTRA LOW POWER



World's lowest power FGAs; Optimized for small form factor

- Static current as low as 25 uA
- World's most popular ultra-low power FPGA

CONTROL & SECURITY



Optimized for platform management & security applications

- 50% market share
- Highest I/O density

AVAILABLE NOW

LATTICE NEXUS™

FD-SOI Small FPGA Platform

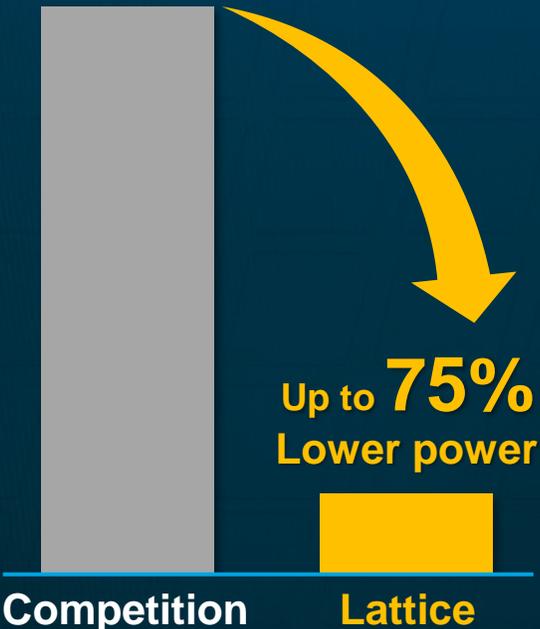
- Low power leadership
- Edge computing ready
- Robust and reliable
- Smallest form factor
- Faster innovation cadence



Lattice Nexus is Changing the FPGA Landscape

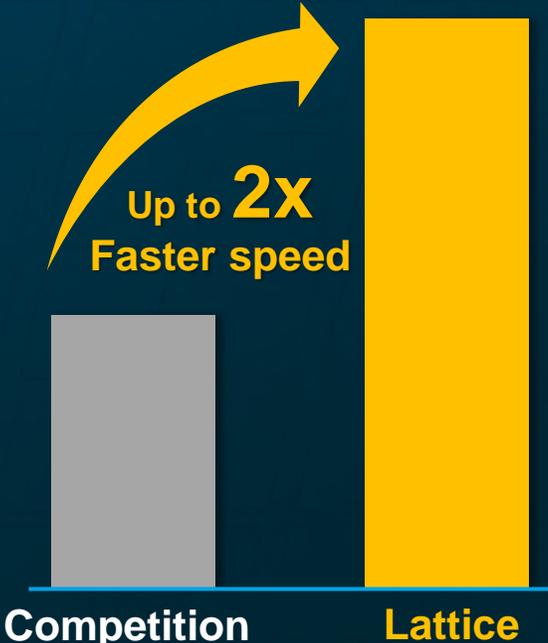
POWER

Operating Power Consumption



PERFORMANCE

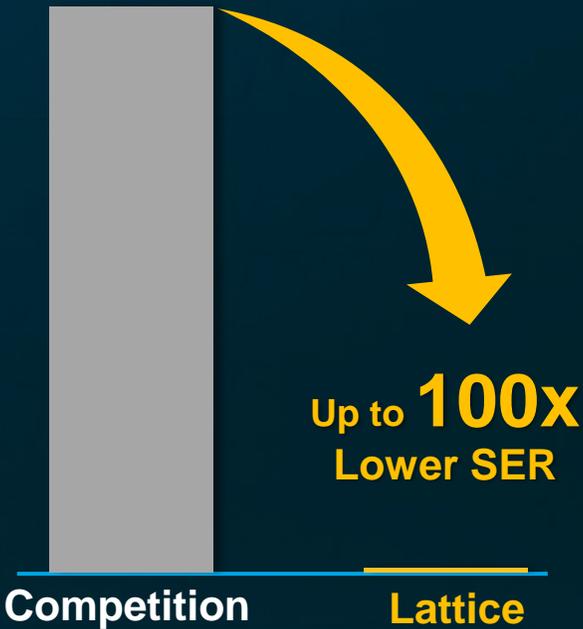
Video Connectivity



Note: comparing similar class competitive devices

RELIABILITY

Soft Error Rate



Nexus-based Low Power Silicon

CrossLink-NX



Embedded Vision Processing

Built on the Lattice Nexus Platform
Optimized Low Power Architecture

AVAILABLE NOW

Certus-NX

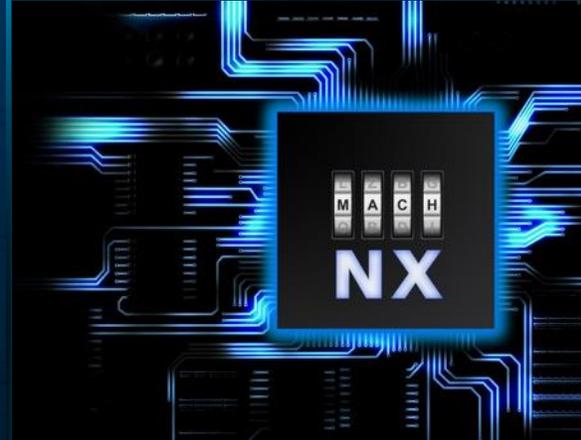


General Purpose Processing

Built on the Lattice Nexus Platform
Lowest Power & Smallest Package with 5G PCIe

AVAILABLE NOW

Mach-NX



Next Gen Hardware Security

Cyber Resilient System Control
Dynamic End-to-End Firmware Protection

AVAILABLE NOW

CertusPro-NX



Advanced General Purpose FPGA

Highest Logic Density Nexus FPGAs
Best in class power efficiency, system bandwidth, and memory capabilities

ENGINEERING SAMPLES AVAILABLE

Software Solution Stacks

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 Sentry



Protecting with Dynamic 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

Complete solutions stack accelerates
industrial automation development

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

Complete solution enablement

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

Lattice Diamond



Powerful FPGA Design & Verification Environment

Easy Design Exploration

Easy to Use Powerful Tools

Optimized for Lattice Devices

Lattice Radiant



LATTICE
RADIANT™
DESIGN SOFTWARE

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

Simplified Flow for Faster Design

Increase Re-use with IP Tools

Leading Synthesis & Simulation

Lattice Propel



Complete Toolset for FPGA-based Embedded System Design

IP System Integration Environment

Software Development Kit & Libraries

Build, Compile, Analyze, Debug

Expanding Our Leadership Portfolio

SOFTWARE SOLUTIONS



Lattice 5G ORAN Stack
LAUNCHING H1 2022

Next Solution Stack
TO BE ANNOUNCED

HARDWARE DEVICES

LATTICE AVANT™
LAUNCHING H2 OF 2022

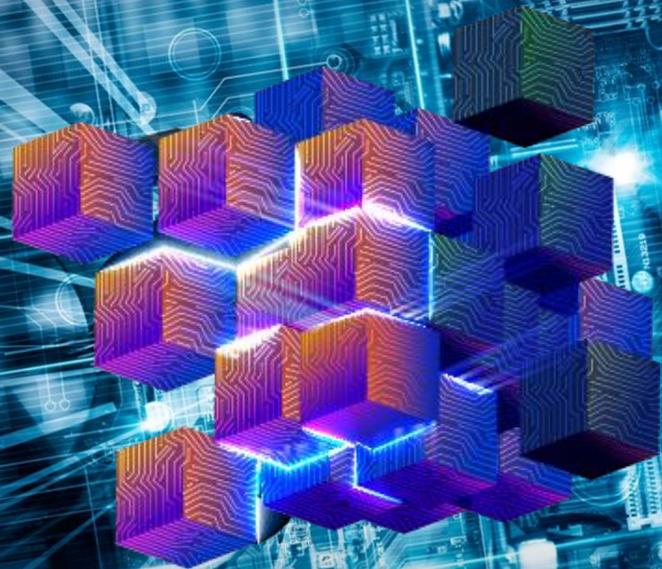


LATTICE NEXUS

 <p>CrossLink-NX</p>	 <p>Certus-NX</p>	 <p>Mach-NX</p>	 <p>CertusPro-NX</p>	 <p>Nexus #5</p> <p>LAUNCHING H1 2022</p>	 <p>Nexus #6</p> <p>TO BE ANNOUNCED</p>
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Innovating for the Future with Avant

LATTICE **AVANT**™



Target Launch H2 of 2022

CUSTOMER BENEFITS

- Market leading power efficiency
- Advanced FPGA architecture
- Scalable to 5X the capacity of Nexus
- Higher system bandwidth
- Breakthrough system features
- Leverages existing software portfolio
- More to be announced at launch

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- 3 End Markets & Applications**
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Positioned in Growing Markets

COMMUNICATIONS



5G Wireless
Switches/Routers

COMPUTE



Servers
Client

INDUSTRIAL



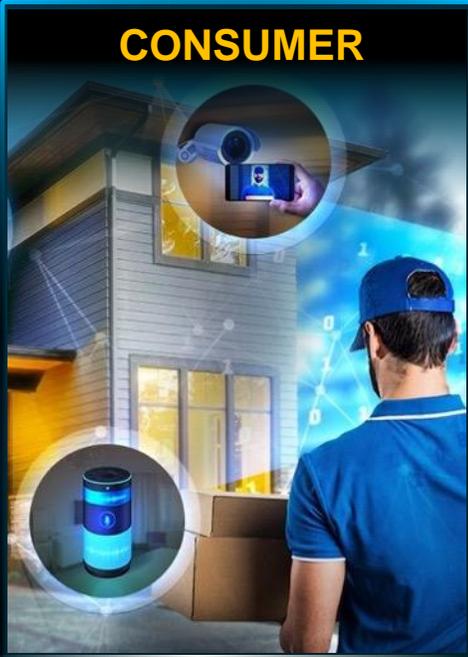
Industrial IoT
Factory Automation

AUTOMOTIVE



ADAS
Infotainment

CONSUMER



Smart Home
Wearables

Leading the Industry in Low Power Programmability

Lattice Solves Communications Challenges

Scalable Hardware Management



5G ORAN



Secure Control



ASIC Bridging



PCIe Bridging

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

Programmable Logic Controller

Edge Computing

Touchless Control

Predictive Maintenance

Motor Control

Machine Vision

Package Detection

Sensor Bridging

Collision Avoidance

Lattice Automotive Applications

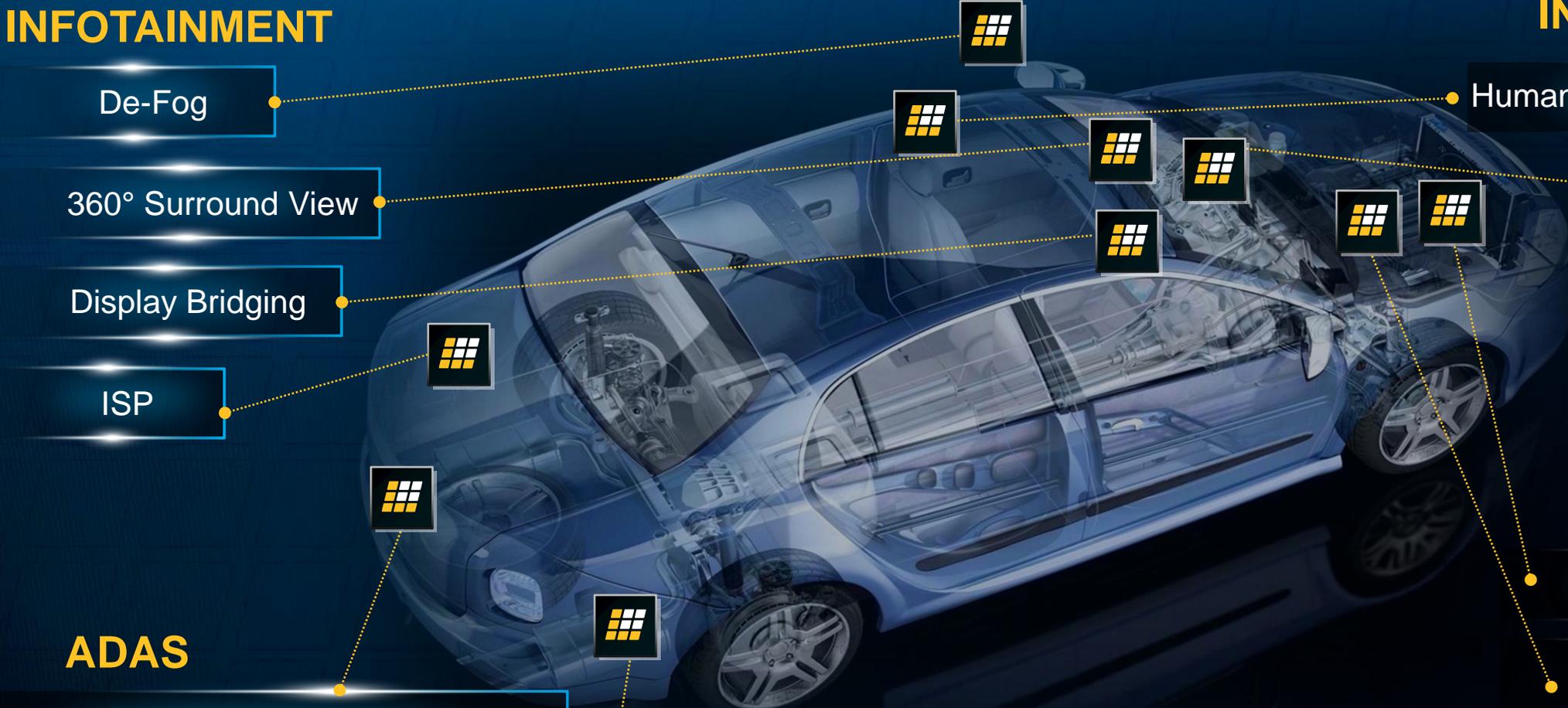
INFOTAINMENT

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

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



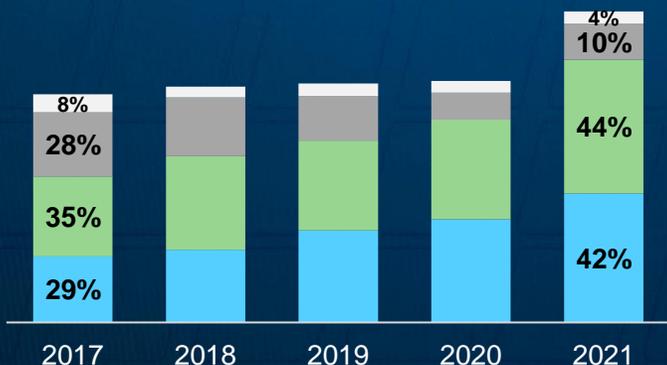
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Strong Financial Execution

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*



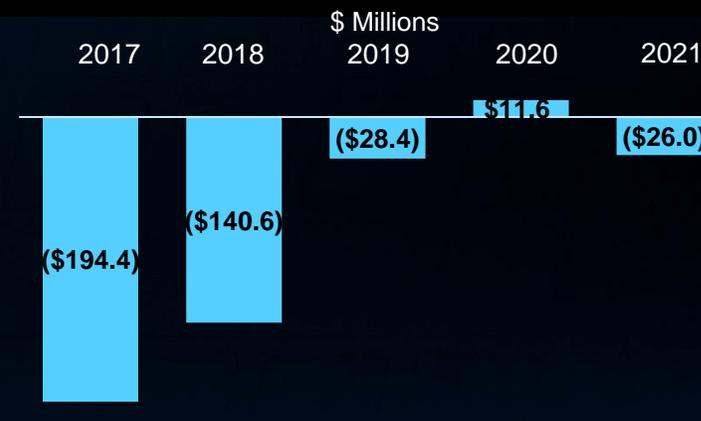
Record Operating Income

EARNINGS PER SHARE*



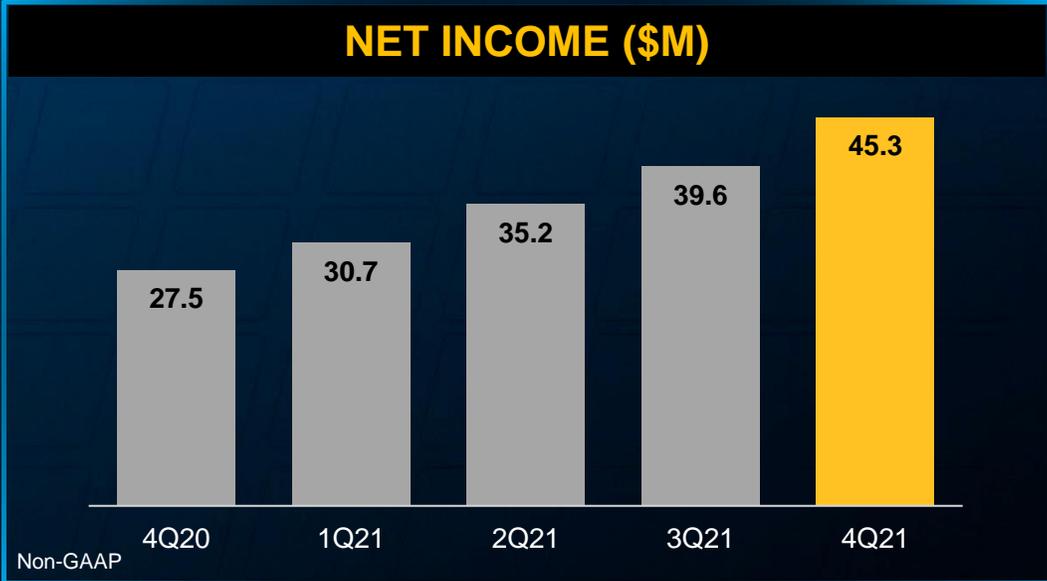
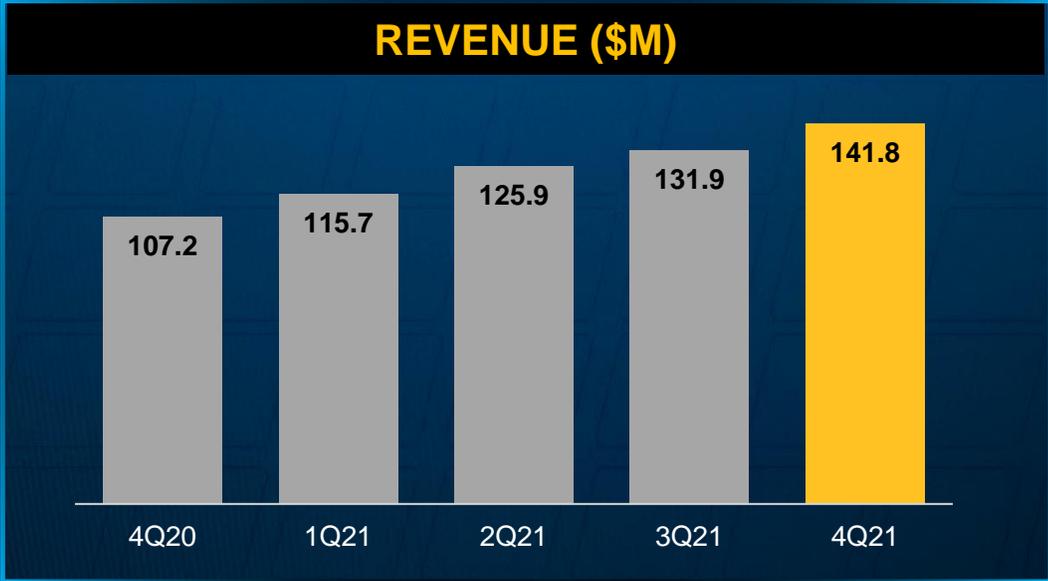
EPS Expansion

NET CASH



All-cash Mirametrix Acquisition in Q4'21

Q4'21 Financial Highlights





The Low Power Programmable Leader