



The Low Power Programmable Leader

June 2021

Safe Harbor

This presentation contains forward-looking statements that involve estimates, assumptions, risks and uncertainties, including statements relating to our expectations about our systems solutions' offerings under the heading "Future".

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 2, 2021 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

43%



INDUSTRIAL &
AUTOMOTIVE

41%



CONSUMER &
LICENSING SERVICES

16%

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



Byron Milstead
General Counsel



Terese Kemble
Human Resources

Holding Ourselves to the Highest ESG Standards

CULTURE OF INNOVATION



ENVIRONMENTALLY CONSCIOUS



INCLUSION & SOCIAL WELLBEING



TRANSPARENCY & INTEGRITY



Committed to Sustainable Business Practices

Agenda

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Financials

Lattice Value Proposition

Smallest
SIZE



Lowest
POWER



Highest
SECURITY



RELIABLE
by Design



EASE
of Use



Lattice FPGA Portfolio

BROAD FAMILY OF LOW POWER FPGAs

GENERAL PURPOSE



Addresses a broad range of applications across multiple markets

- Lowest power and smallest package (6 x 6 mm) with 5G PCIe & GigE support
- Up to 150K LUTs with significant compute under 1 W and lowest power 5G SERDES

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 FPGAs; Optimized for small form factor

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

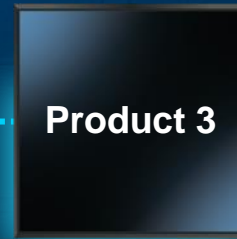
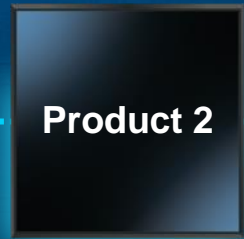
CONTROL & SECURITY



Optimized for platform management & security applications

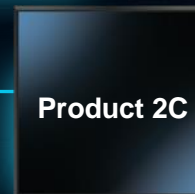
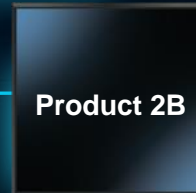
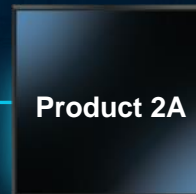
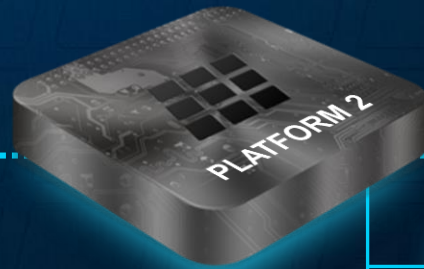
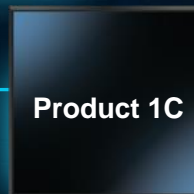
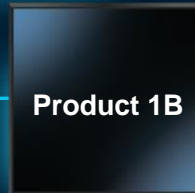
- 50% market share
- Highest I/O density

Our Platform Based Design Approach



PRIOR METHOD

- Pre-Nexus products
- Lack of reuse and scale
- Longer development time



NEW METHOD

- Nexus and future products
- Lower development cost
- Faster time to market

AVAILABLE NOW

LATTICE NEXUS

FD-SOI Small FPGA Platform

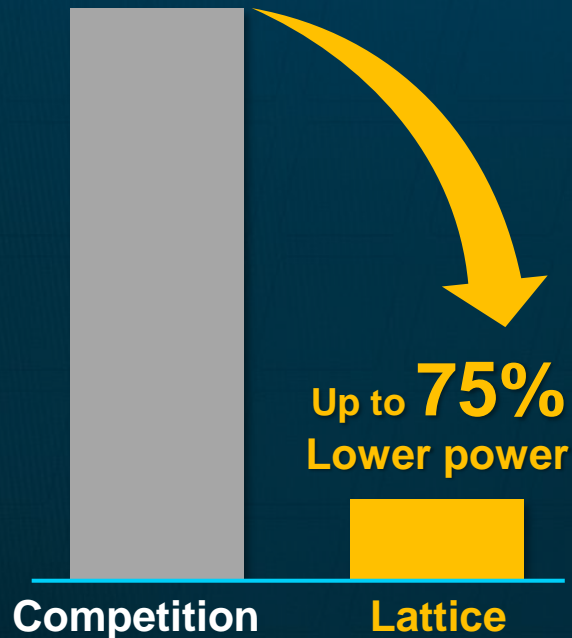
- Low power leadership
- Edge computing ready
- Robust and reliable
- Smallest form factor
- Faster innovation cadence



Lattice Nexus is Changing the FPGA Landscape

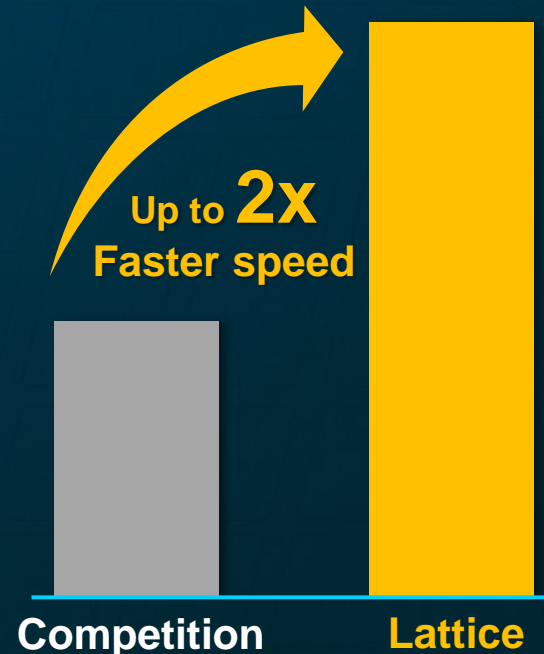
POWER

Operating Power Consumption



PERFORMANCE

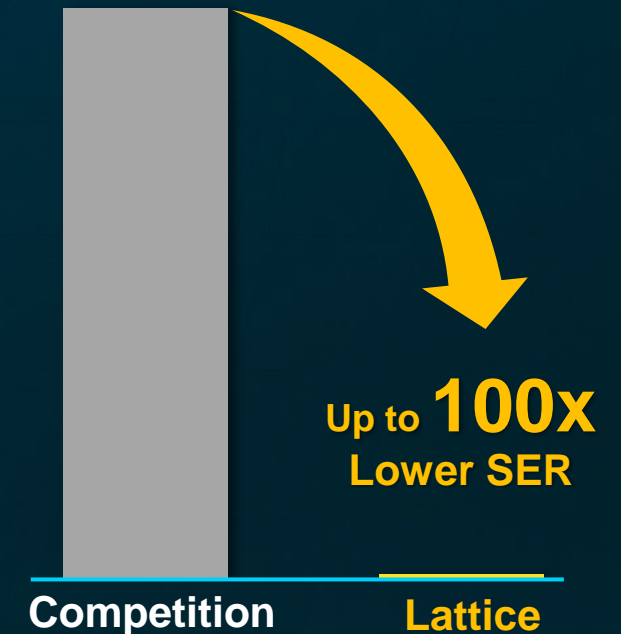
Video Connectivity



Note: comparing similar class competitive devices

RELIABILITY

Soft Error Rate



New Nexus-based Low Power Silicon

CrossLink-NX



Embedded Vision Processing

Built on the Lattice Nexus Platform

Optimized Low Power Architecture

AVAILABLE NOW

Certus-NX



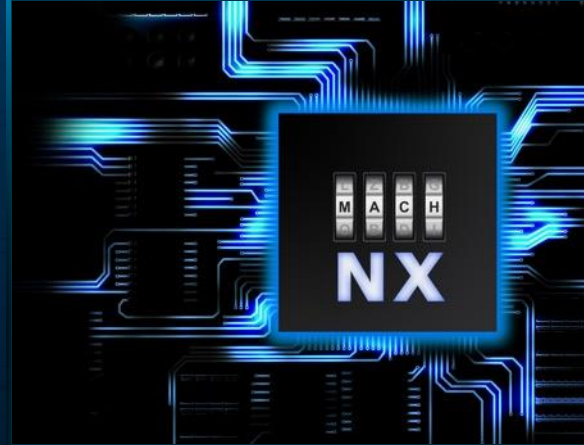
General Purpose Processing

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

ENGINEERING SAMPLES AVAILABLE

CertusPro-NX



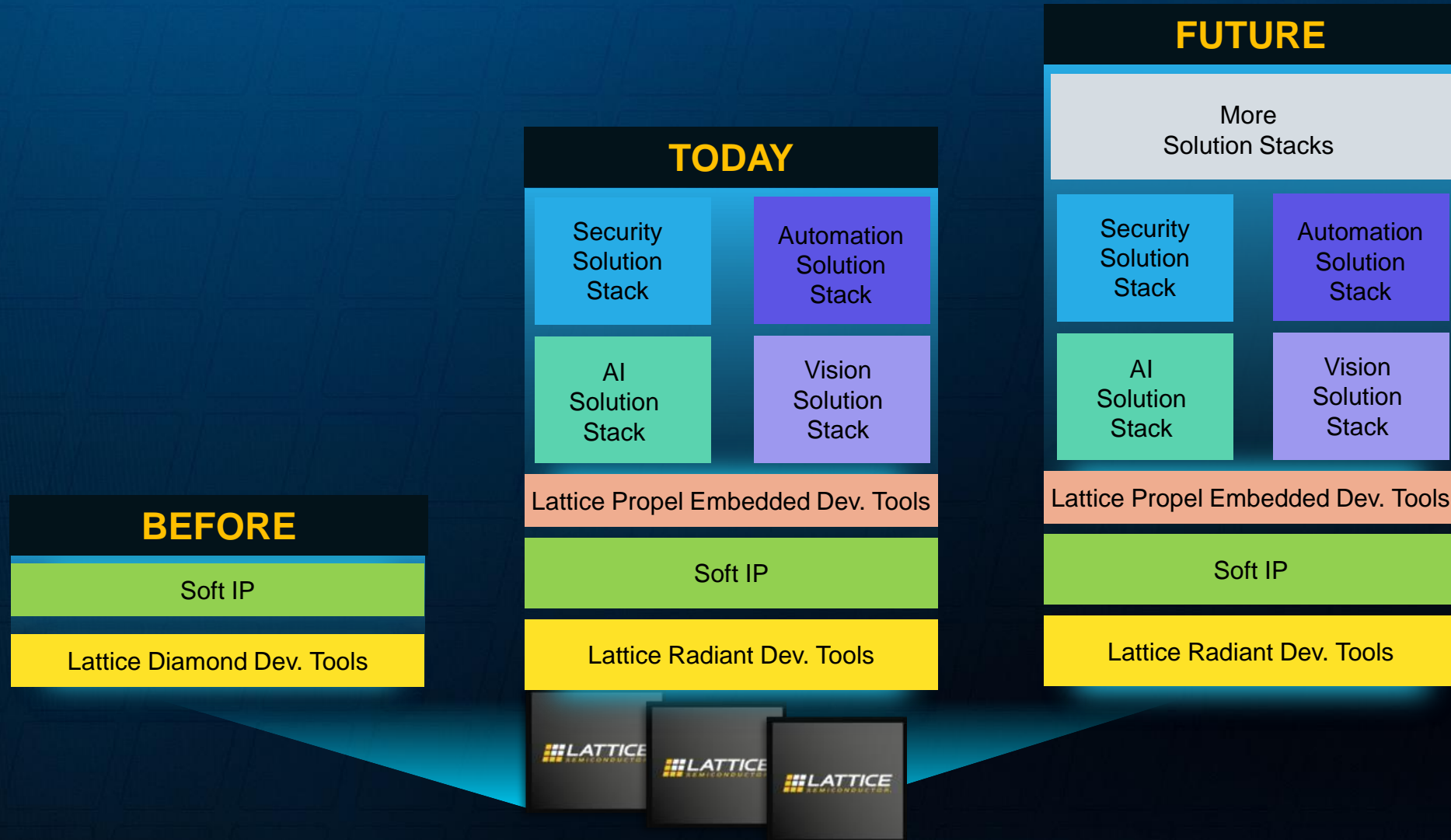
Advanced General Purpose FPGA

Industry leadership in power efficiency

Best in class system bandwidth

LAUNCHING JUNE 2021

Lattice's Expanded System Solutions



Bringing Additional Value to Our Customers

Value-Added 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



Protect 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 including motor control, real-time networking, & predictive maintenance
- Complete solution enablement

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



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
sensAI

LATTICE
mVision

LATTICE
Sentro

LATTICE
Automate

Lattice 5G
ORAN Stack

LAUNCHING H1 2022

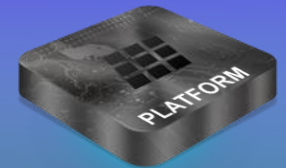
Next Solution
Stack

TO BE ANNOUNCED

HARDWARE DEVICES

LATTICE AVANT

LAUNCHING H2 OF 2022



LATTICE NEXUS

LATTICE
SEMICONDUCTOR

CrossLink-NX

LATTICE
SEMICONDUCTOR

Certus-NX

LATTICE
SEMICONDUCTOR

Mach-NX

LATTICE
SEMICONDUCTOR

CertusPro-NX

LATTICE
SEMICONDUCTOR

Nexus #5

LATTICE
SEMICONDUCTOR

Nexus #6

LAUNCHING JUNE 2021

LAUNCHING H1 2022

TO BE ANNOUNCED

Innovating for the Future with Avant

LATTICE **AVANT**

Target Launch H2 of Next Year

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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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



Machine Vision



Package Detection



Motor Control



Sensor Bridging



Collision Avoidance



Lattice Solves Automotive Challenges

INFOTAINMENT

De-Fog

360° Surround View

Display Bridging

ISP

ADAS

Radar Sensor Bridging & Aggregation

Image Sensor Bridging & Aggregation

IN CABIN AI

Human Presence Detection

Driver Monitoring

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



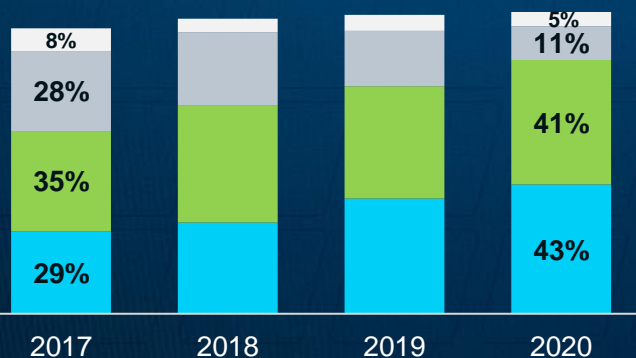
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Strong Financial Execution

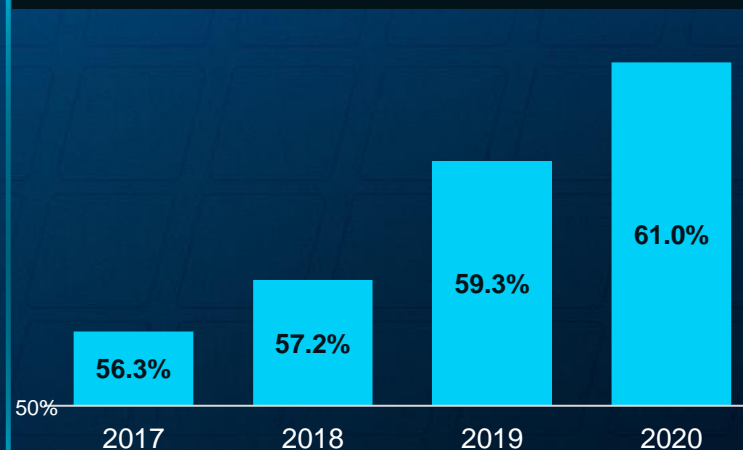
REVENUE

Comms/Compute Industrial/Auto Consumer IP



Growth in Core Strategic Markets

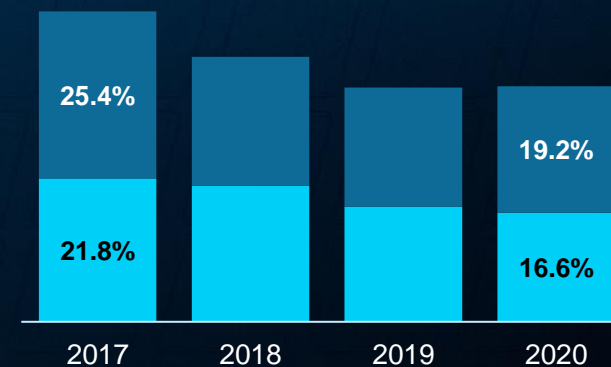
GROSS MARGIN*



Gross Margin Expansion

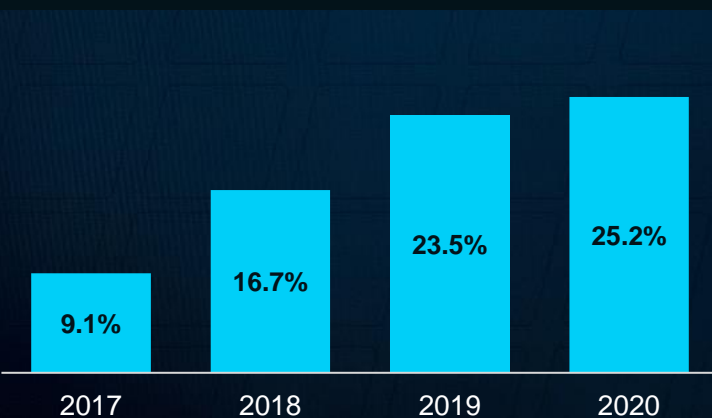
OPEX*

SG&A R&D



OpEx Discipline

OPERATING INCOME*



Record Operating Income

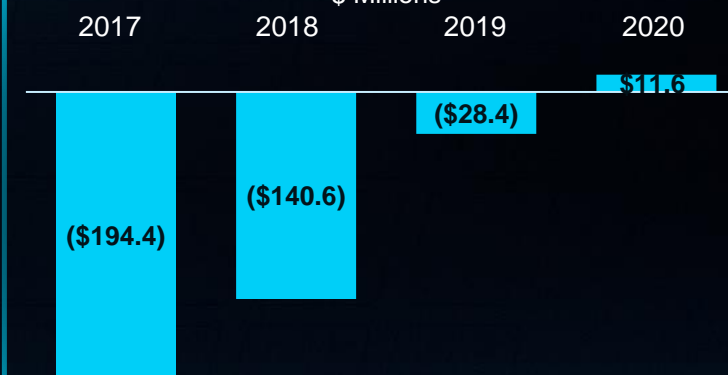
EARNINGS PER SHARE*



EPS Expansion

NET CASH

\$ Millions



Positive Net Cash Position

Q1'21 Financial Highlights

