BrainChip

Efficient. Effective. Everywhere.

Essential AI

OTCQX: BCHPY ASX: BRN

Approved by Board of Directors

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Before we begin… Brainchip Exhibits at CES 2024

Here's a glimpse into our first CES:

- **Dozens of New Prospects:** We connected with dozens of new prospects.
- **Ecosystem Partner Collaborations:** We connected with many existing and initiated conversations with several ecosystem partners.
- **Industry Analyst Conversations:** Our innovative solutions caught the eye of leading industry analysts, setting the stage for in-depth conversations about the future of technology and Brainchip's role in it.
- **Strategic Awareness Campaign**: At CES 2024, we launched a series of 12 captivating podcasts, paired with insightful newsletters, offering a deep dive into the AI solutions that are changing the world.

CES 2024 Social Stats:

150K Views

12K Engagement

Across Brainchip's profiles on LinkedIn and X during CES 2024

Leading the Generational Shift to **Edge AI**

Real-time AI inference needs Edge Compute. The cloud is no longer the only environment for AI.

- First to commercialize neuromorphic technology.
- Targeting robust and flexible business model.
- Growing ecosystem, partnerships, and commercial momentum.
- World-class board & executive team.
- Strong patent protections.

Beliefs

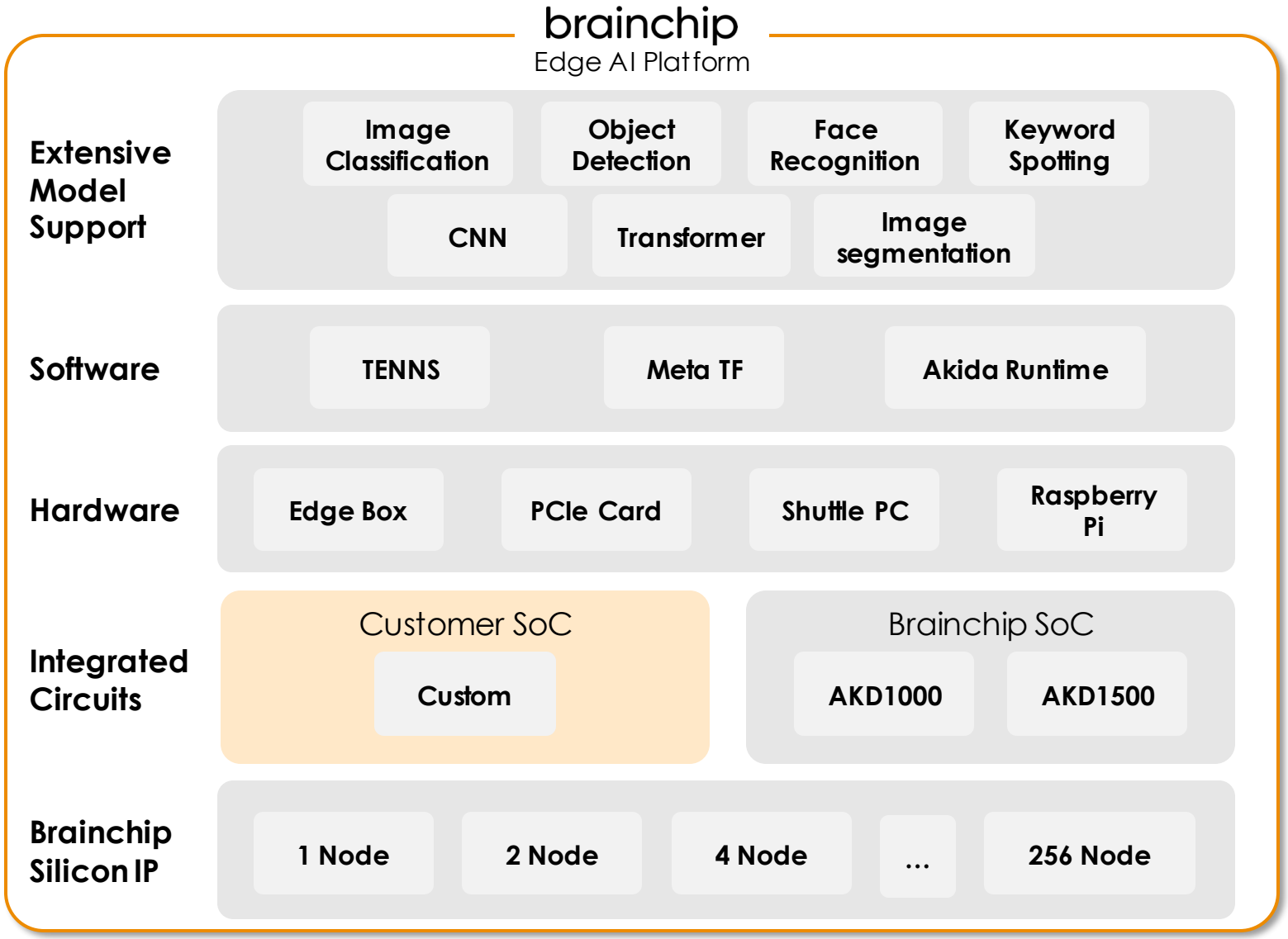
1. AI will be the great economic driver over the next decades
2. Significant inference outside of the data center, on the edge
3. Edge AI market is fragmented and rapidly growing
4. A novel compute approach will prevail

Strategy

- Enable the entire edge
- Rich customer experience
- Hire the best talent
- Neuromorphic matters

Execution

Brainchip's Edge AI Platform

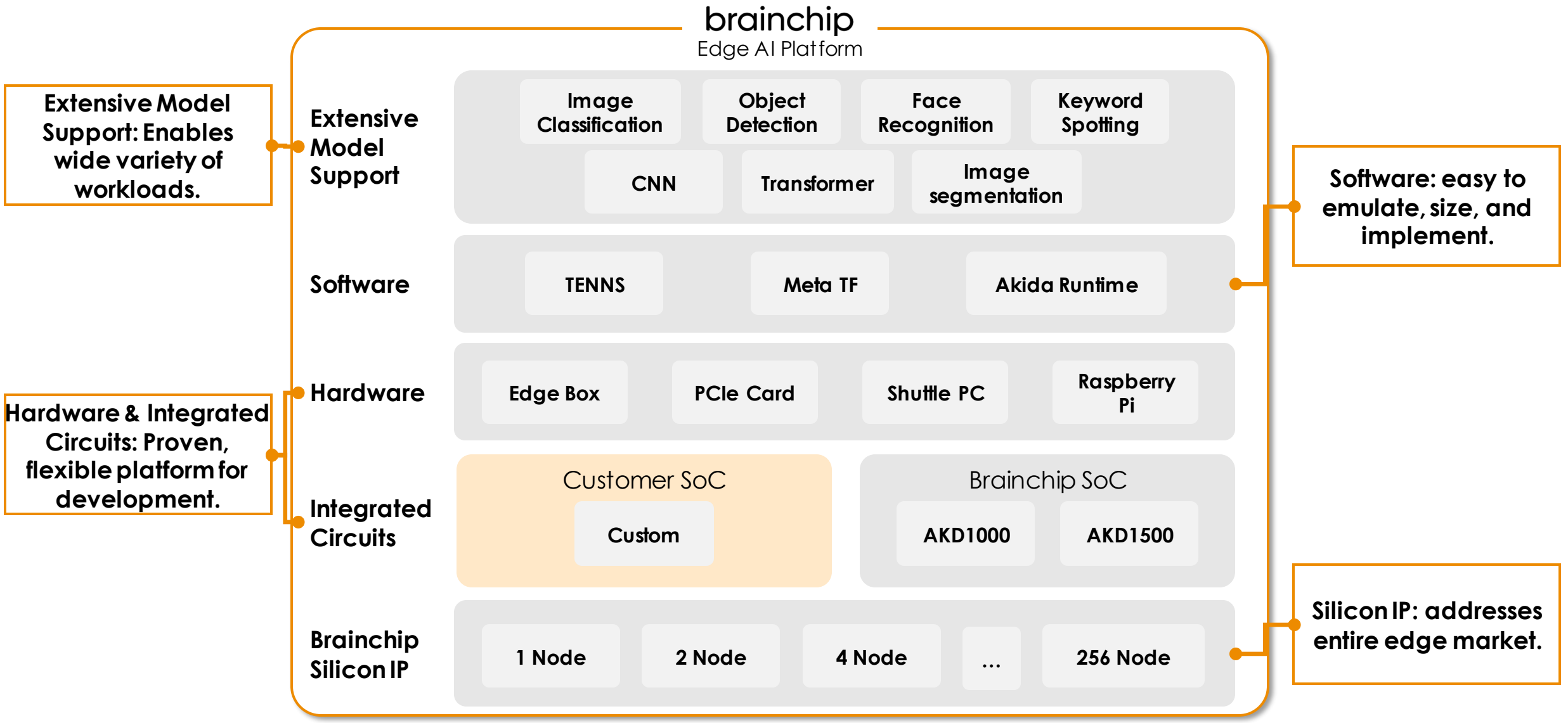


Brainchip's Edge AI platform redefines intelligence at the edge, combining innovative IP, software, and ML models to accelerate customer use cases.

This integrated and powerful solution ensures immediate data analysis and decision-making on-device, improving efficiency, reducing latency, and ensuring privacy.

Unlocking real-time, ML and AI without the cloud.

Brainchip's Edge AI Platform



Leading the Generational Shift to Edge AI

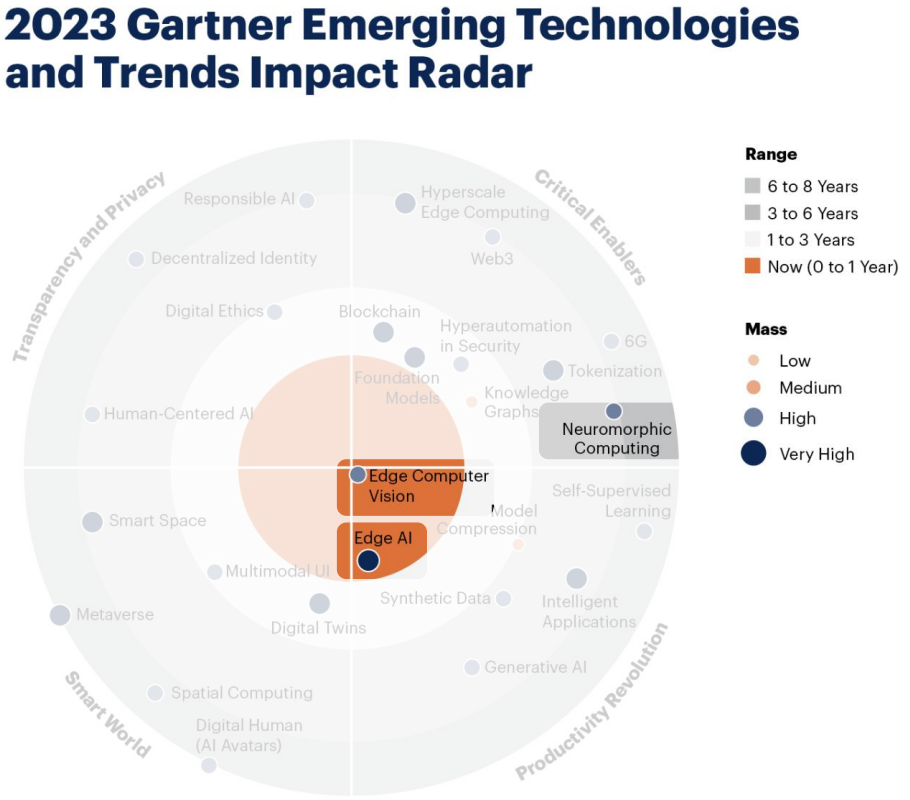
- Participating in high-growth markets
- Competitive advantages
- Robust and flexible IP business model
- Strong leadership and culture
- Working closely with partners

Large Opportunity for Edge AI

100 Billion IoT Devices
In 2030[1]

$1.2 Trillion AIoT Revenue
In 2030[2]

13% CAGR Market Growth
In 2024-2028[3]



Gartner Names Edge AI and Neuromorphic "Near-term" and "High Mass"

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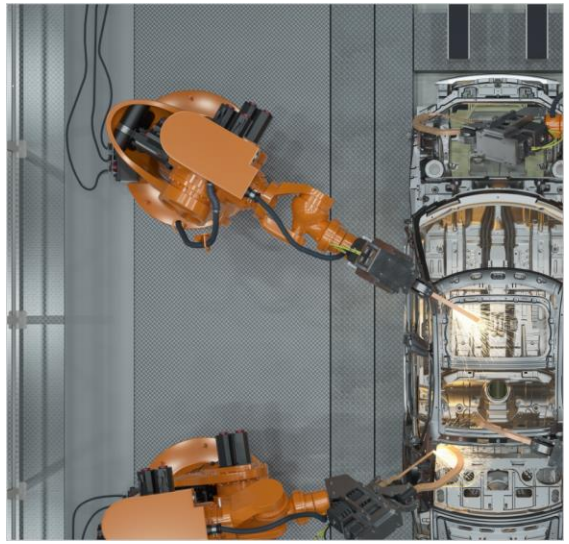
Source: 1. Statista and McKinsey reports 2. Forbes Business Insights 3. Statista Internet of Things – Worldwide Revenue

Brainchip's End Markets



Industrial

Market Size $3.1B

Use Cases:
- Predictive Maintenance
- Manufacturing Management
- Robotics and automation
- Security Management

Automotive

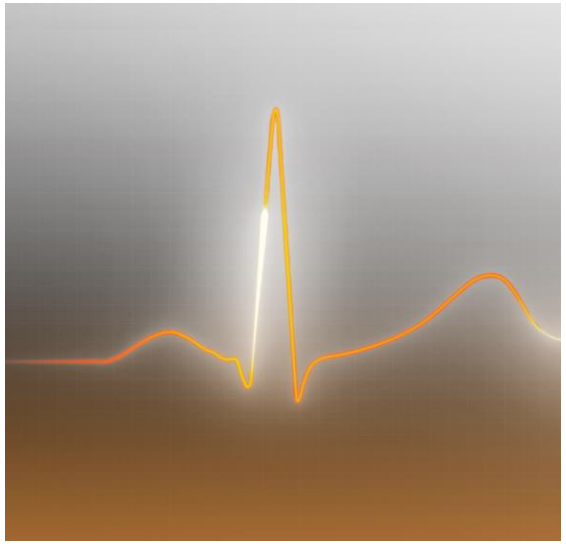
Market Size $3.8B

Use Cases:
- In-Cabin Experience
- Real-time Sensing
- ECU Control
- Intuitive HMI

Home & Consumer

Market Size $2B

Use Cases:
- Security & surveillance
- Intelligent Home Automation
- Personalization & Privacy
- Proactive maintenance



Health & Wellness

Market Size $0.8B

Use Cases:
- Audio denoising
- Vital-signs Prediction
- Sensory Augmentation
- Chronic Disease Monitoring

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Source: Various analyst sources, compiled by Tirias Research.

Traditional Options Don't Fit the Edge

For most common customer use case: AI Inference at Edge

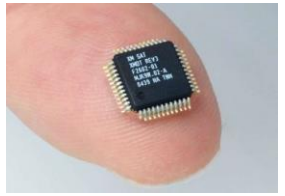
Cloud

- × **Power:** Streaming data quickly drains device battery.
- × **Latency:** Unacceptable.
- × **Cost:** Adds chipset cost and cloud cost.
- × **Reliability:** Risk of lost connection.
- × **Security:** Private data sent, risk of exposure.

Local Mini Server

- × **Power:** Requires electrical outlet.
- × **Cost:** Adds hundreds of dollars in hardware cost.
- × **Size:** Not embedded in device.
- × **Heat:** High operating temp.

Embedded CPU / MCU



- × **ML & AI Workload:** Not optimal for neural networks nor transformers.
- × **Power:** Requires a lot of power, quickly draining device battery.

Neural Accelerator

- ✓ **ML & AI Workload Optimal**
- ✓ **Power Efficient**
- ✓ **Compute Efficient**
- ✓ **Low Latency**
- ✓ **Tiny Physical Size**
- ✓ **Secure**
- ✓ **Low Cost**

Market Leader in Edge AI

	Microwatt Power	Configurable IP	On-chip learning	Standalone[1]	Minimal data movement
brainchip	✓	✓	✓	✓	✓
Competitor 1	✓	✗	✗	✓	✗
Competitor 2	✗	✗	✗	✗	✗
Competitor 3	✗	✓	✗	✗	✗
Competitor 4	✗	✗	✗	✓	✗

Note: 1. Standalone without requiring partner processor

Market Leader in Neuromorphic

	Micro to milliwatt Power	On-Chip Learning	Standard ML Workflow	Stand-alone possible	On-chip Convolution
brainchip	✓	✓	✓	✓	✓
IBM True North[1]	✓	✗	Learn Corel	✗	✗
Intel Loihi[1]	✓	Programmable	Learn NEF	✗	✗

BrainChip is the **FIRST** commercial producer of neuromorphic AI IP solutions.

Note: 1. Intel Loihi & IBM True North are research chips and not commercially available.

Competitive Advantages

Product Advantages

Compelling Performance

Extreme Efficiency

On-chip Learning

Broad Model Support

Company Advantages

Customer Focus

Intense Innovation Cycle

Today and Tomorrow's Models

Strong IP Protections

Robust and flexible IP business model

Focus on High-Margin IP Business Model

Partner with Systems Integrators

Additional Packaging

Focus on IP Business Model

Focus on High-Margin IP Business Model

1. **Upfront license fee**
2. **Annuity streams from royalties**
3. **Agile development process**

Partner with Systems Integrators

Partner with Systems Integrators

1. **Demand for workloads on Akida**
2. **Stimulates demand for IP purchases**
3. **Additional revenue streams & new business models**

Additional Packaging

Additional Packaging

1. **Customer led innovation**
2. **Pre- and post- processing with neural accelerator**
3. **Open new markets**

Strong Leadership and Culture

Seasoned Executive Team

Sean Hehir
CEO

Tony Lewis, Ph.D
CTO

Ken Scarince
CFO

Nandan Nayampally
CMO

Steve Thorne
VP of Sales

Rob Telson
VP of Ecosystems & Partnerships

Todd Vierra
VP of Customer Success

Anil Mankar
Co-Founder & CDO

80% Engineers
of BRN headcount

17 Patents
Granted

15% PhDs
From leading AI research programs

30 Patents
Pending

Prior Industry Expertise

arm AMD SYNOPSYS cadence Qualcomm intel hp habana amazon Western Digital FUSION-IO

Working Closely With Industry Leaders

Licenses

MegaChips

RENESAS

Early Adopters

Mercedes-Benz

NASA

VORAGO TECHNOLOGIES
Opening up new possibilities

Valeo

Growing Ecosystem & Partnerships

arm

intel foundry services

EDGE IMPULSE

TEKSUN
CULTIVATING TECHNOLOGY

Ai Labs

PROPHESEE

EMOTION3D

NVISO

SiFive

VVDN TECHNOLOGIES

G
GMAC Intelligence

Unigen

circle8
CLEAN TECHNOLOGIES

University Partnerships

Arizona State University

R·I·T

Carnegie Mellon

The UNIVERSITY of OKLAHOMA

UNIVERSITY of VIRGINIA

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Thank you

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