



ASX Announcement

BrainChip Holdings Ltd CEO Sean Hehir to Present at Semiconductor Australia 2025

Sydney, Australia – 22 October 2025 – [BrainChip Holdings Ltd](#) (ASX: **BRN**, OTCQX: **BRCHF**, **BCHPY**), (BrainChip or Company), the world's first commercial producer of neuromorphic artificial intelligence IP, today is pleased to announce that Chief Executive Officer, Sean Hehir, will present at Semiconductor Australia 2025 on 22 October 2025. The event will be held in Sydney and bring together global leaders in semiconductor innovation.

The presentation, titled "AI in All Chips: A New Era of Edge Intelligence", will highlight:

- The growing trend of AI embedded in all silicon.
- The shift from cloud to edge AI driven by cost, privacy, and performance.
- Significant market growth opportunities in Edge AI and Generative AI.
- BrainChip's Akida neuromorphic platform enables ultra-low-power edge AI across healthcare, defense, space, and safety applications.

Event Details:

- Date: 22 October 2025
- Location: Sydney, Australia

For more information, visit www.brainchip.com or contact IR@brainchip.com.

This announcement is authorised for release by the BRN Board of Directors.

About BrainChip Holdings Ltd (ASX: BRN)

BrainChip is the worldwide leader in edge AI on-chip processing and learning. The Company's first-to-market neuromorphic processor, Akida™, mimics the human brain to analyze only essential sensor inputs at the point of acquisition, processing data with unparalleled efficiency, precision, and economy of energy. Keeping machine learning local to the chip, independent of the cloud, also dramatically reduces latency while improving privacy and data security. In enabling effective edge compute to be universally deployable across real world applications such as connected cars, consumer electronics, and industrial IoT, BrainChip is proving that on-chip AI, close to the sensor, is the future for its customers' products as well as the planet. Explore the benefits of Essential AI at www.brainchip.com.

Additional information is available at:

<https://www.brainchipinc.com>

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AI in All Chips: A New Era of Edge Intelligence

Semiconductor Australia – BrainChip

Sydney, October 2025

Pervasive
Adoption

Rapid Model
Innovation

Natural Language
Emergence
(NLP & LLM)

Importance of
Inference

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Pervasive
Adoption

Rapid Model
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Natural Language
Emergence
(NLP & LLM)

Importance of
Inference

The Power and
Cost Imperative

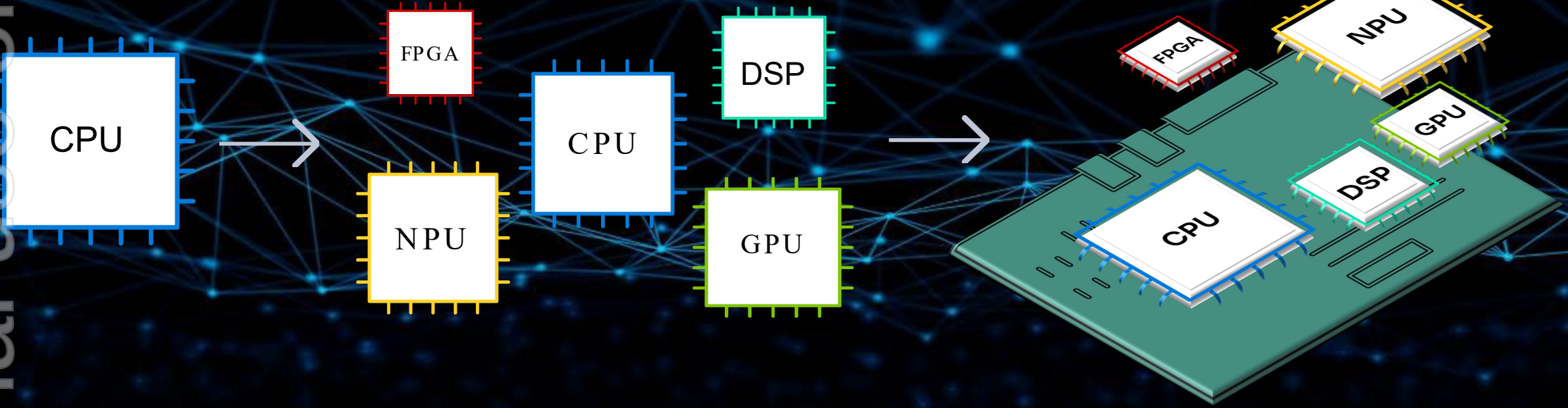
The Unstoppable
Shift to the Edge

Embedded AI
Becomes an Invisible
Engine for Growth

AI Becomes the New
Standard for Signal
Processing

Silicon is the Foundation of AI

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Standalone CPU

Standalone Chips

AI Embedded in All Chips

Examples



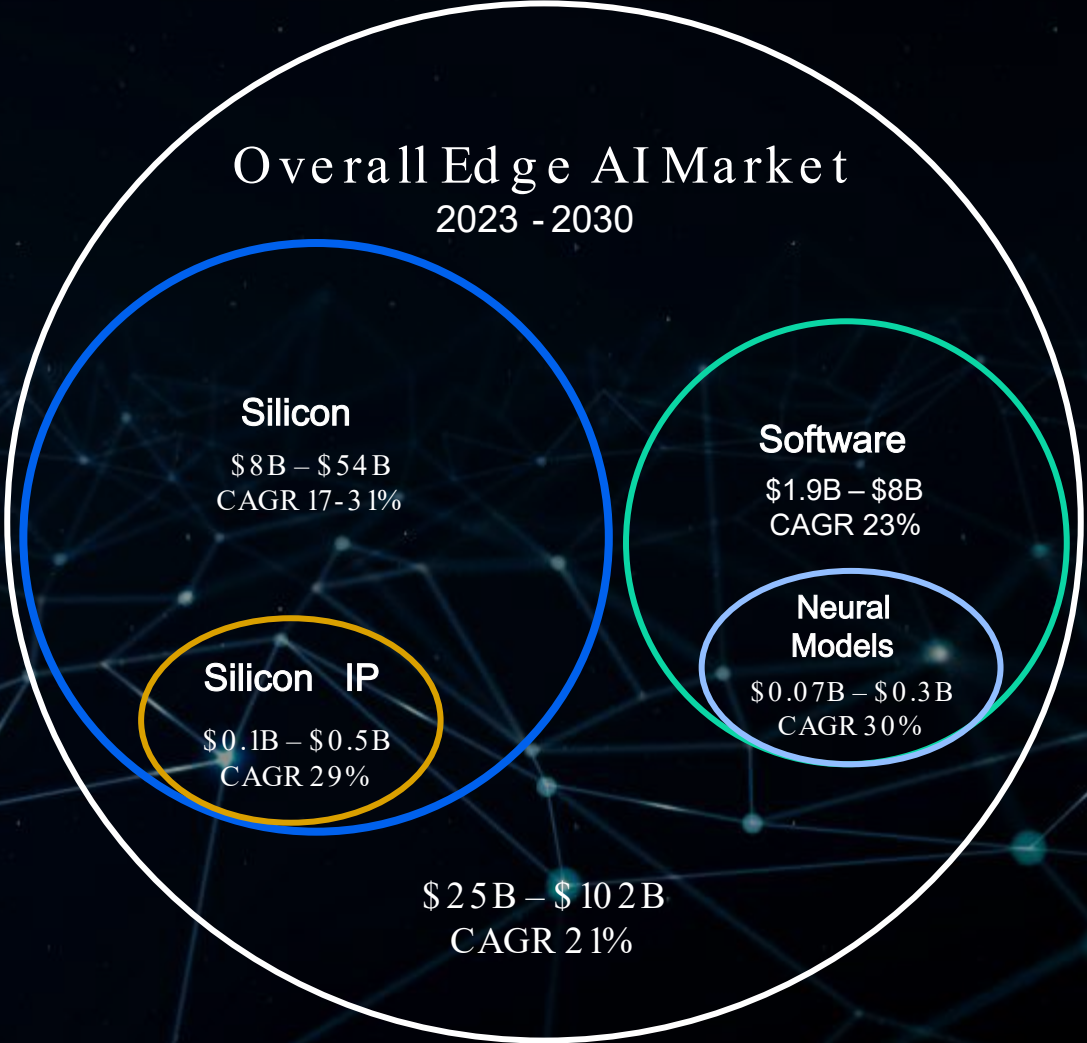
Modern storage platforms now embed on-chip computational units such as FPGAs or ASICs, enabling data-intensive AI workloads — like database searches or image pre-processing — to be performed directly where the data resides.



Next-generation automation systems integrate AI accelerators alongside traditional MCUs and NPUs, allowing real-time defect detection and adaptive control directly on the factory floor.



Hyperscale custom silicon becomes a pathway for specialized AI workloads.



The SHD Group July 2025 SHD102.b-25

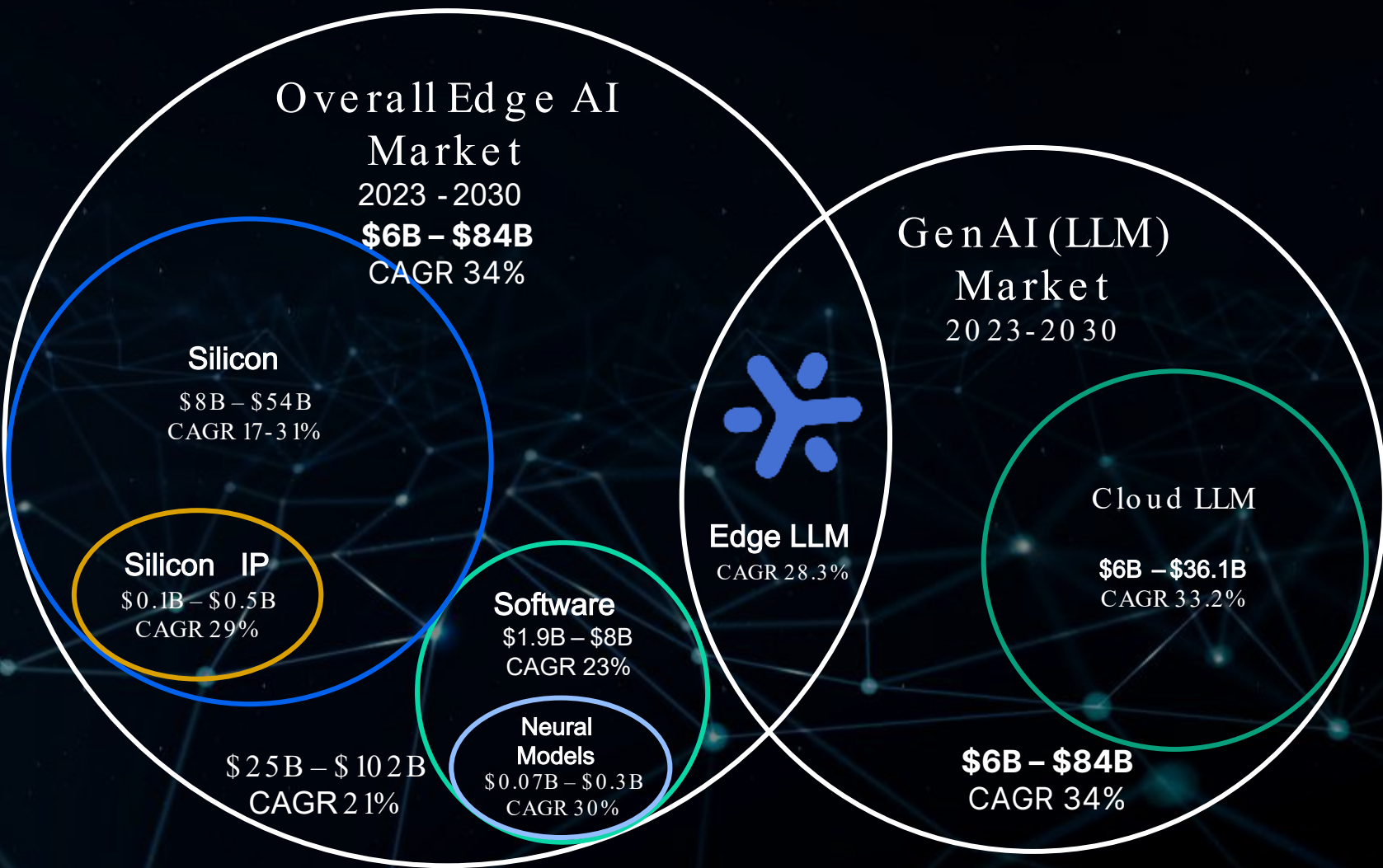
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[Mordor Intelligence](#)

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Mordor Intelligence

BrainChip Solutions

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Delivering AI IP & Silicon for Ultra Low - Power Edge AI Devices

cores

Akida IP Cores

- Purpose built neural processing unit
- Extremely power-efficient (mW)
- Fully scalable, programmable, re-configurable

tools

Software - MetaTF

- Complete SW development tools and programming environment

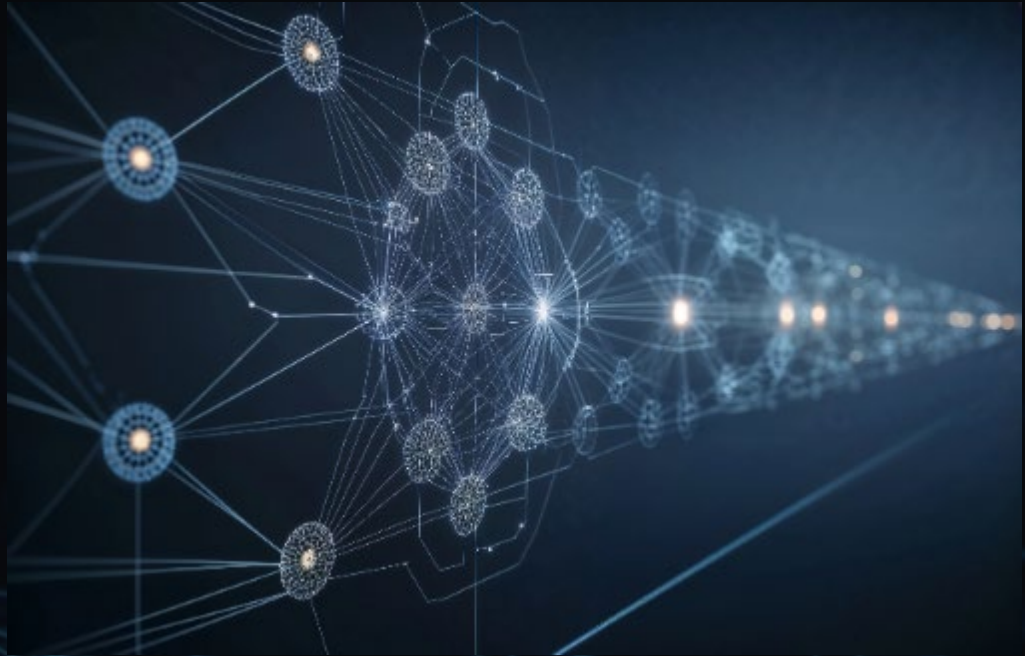
models

Models

 **Hear**

 **See**

 **Sense**



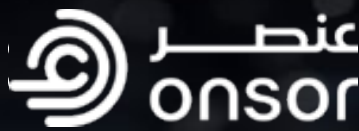
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	Akida 1	Akida 2	Akida GenAI	Akida 3
Hardware	• 1, 4-bit integer • Neuromorphic State Machine	• 1, 4, 8-bit integer • Neuromorphic State Machine	• 16, 32-bit Floating point • Neuromorphic (ISA)	• 1, 4, 8, 16-bit integer • 16, 32-bit Floating point • Neuromorphic (ISA)
Software	• MetaTF model conversion	• Enhanced MetaTF model conversion • 3rd Party Model Providers	• Akida SDK for TENNs LLM • Direct use of open source SSMs, no conversion necessary • Distillation of very large models	• Akida SDK for diverse models (TENNs and user's models) • 3rd Party Model Provider ecosystem
Models	• Simple convolutional neural networks (CNNs)	• CNNs, TENNs, branching and recurrent topologies	• TENNs and SSM open-source Large Language Models (LLMs)	• CNNs, TENNs, SSMs, LLMs • Branching, recurrent and arbitrary topologies



Onsor Nexa

Predicting Epileptic Seizures



Proactive Health Management
Anticipate seizures before they happen.



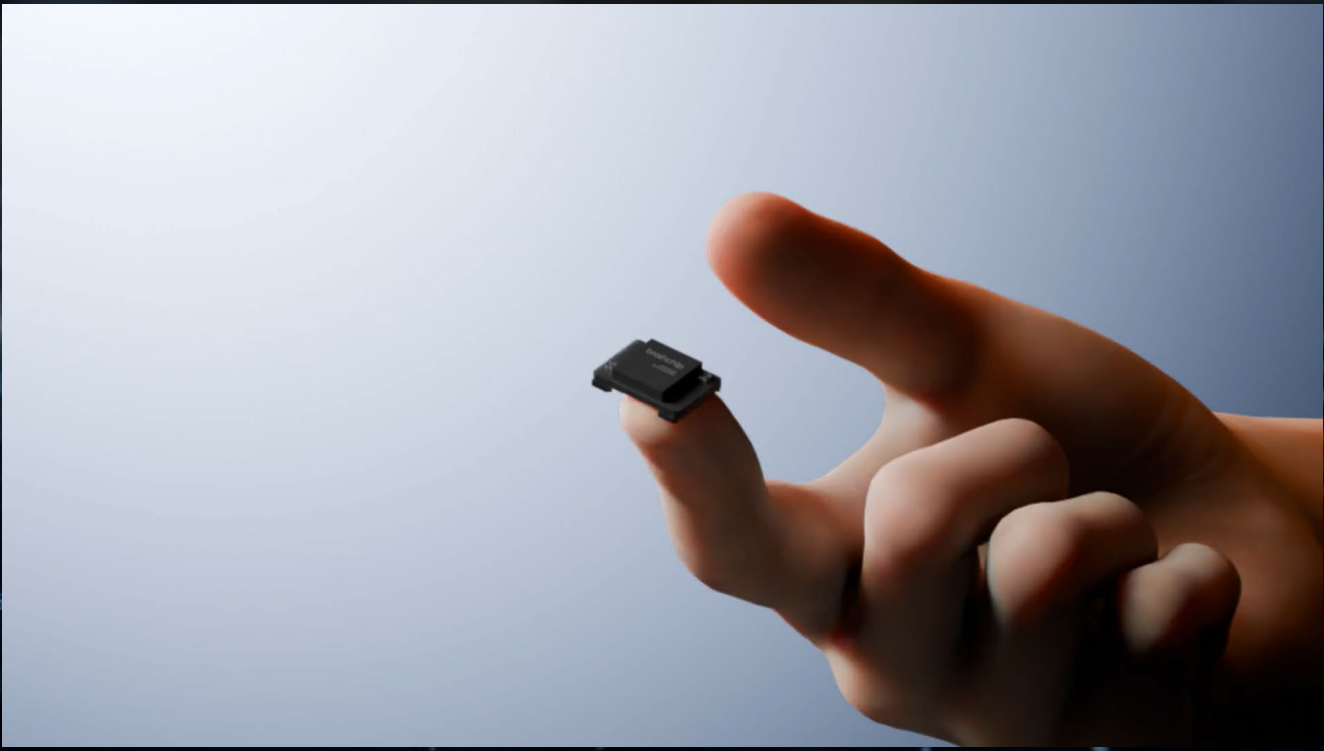
On - Device AI Processing
Ultra-low-power, real-time analysis.



Freedom & Independence
Engage in daily activities with greater confidence and security.



Scalable for Future Applications
Expanding into other medical conditions.



GR801

First Neuromorphic AI Solution for Space



Pioneering AI for Extreme Space Exploration

Bringing neuromorphic AI to space -grade SoCs with Frontgrade's proven radiation -hardened technology.



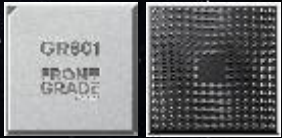
Unprecedented Power Efficiency

Radically lower power consumption, ideal for resource - limited space missions.



Enhanced Mission Capabilities

Real-time object detection, navigation without ground control, autonomous docking/landing, and intelligent data compression.





Challenge:

Process raw and noisy radar inputs instantly in size & power constrained environment.



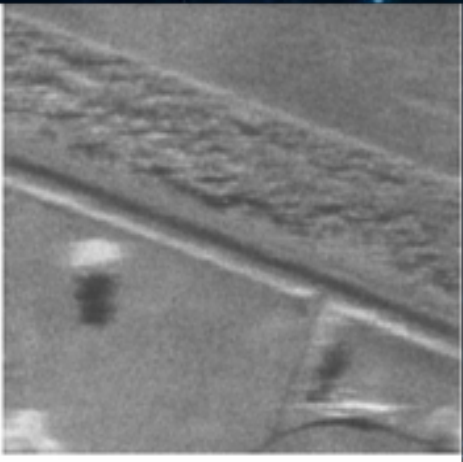
Video radar reconstruction of the parking lot scanned by an airplane

<https://www.youtube.com/watch?v=P1k2RzHlHik>



Solution:

Akida achieves the same high-fidelity imaging as large, power-intensive GPU systems but with an **ultra-low SWaP-C** profile.



Raw Noisy Radar Signal



Akida AI Compute

Best Ultra -Low SWaP-C

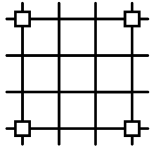


Classical AI Compute GPU + DSP

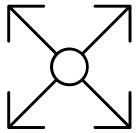
High SWaP-C

© 2025 BrainChip Inc. Proprietary Algorithm Results

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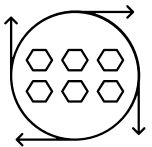
AI is Embedded in Every Piece of Silicon



AI Shift from Cloud to Edge is under way



Dedicated optimized hardware is the enabler



Hardware market will consolidate to key leaders

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Q & A

ersonal use only

brainchipTM 
Thank You

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brainchipTM 



Website
www.brainchip.com



Email
IR@brainchip.com

Edge AI Market is being driven by key advantages:

Why **On-Device AI** Matters
Bringing AI on Device **Unlocks Various Benefits:**



Privacy

Your data stays on the device, not in the cloud



Security

No transmissions means less risk of interception



Reliability

Keeps working, even without a network connection



Cost Effective

No unending cloud fees



Personalized

Models can be tailored to your specific use case

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- * **First commercial** neuromorphic IP platform and reference chip
- * **Ultra-low power AI the Edge** with fit-for-market solutions
- * **Enabling Scale** with cost-effective, hyper-efficient, disruptive Edge AI
- * **Creating a collaborative supply chain** from end-to-end with partners



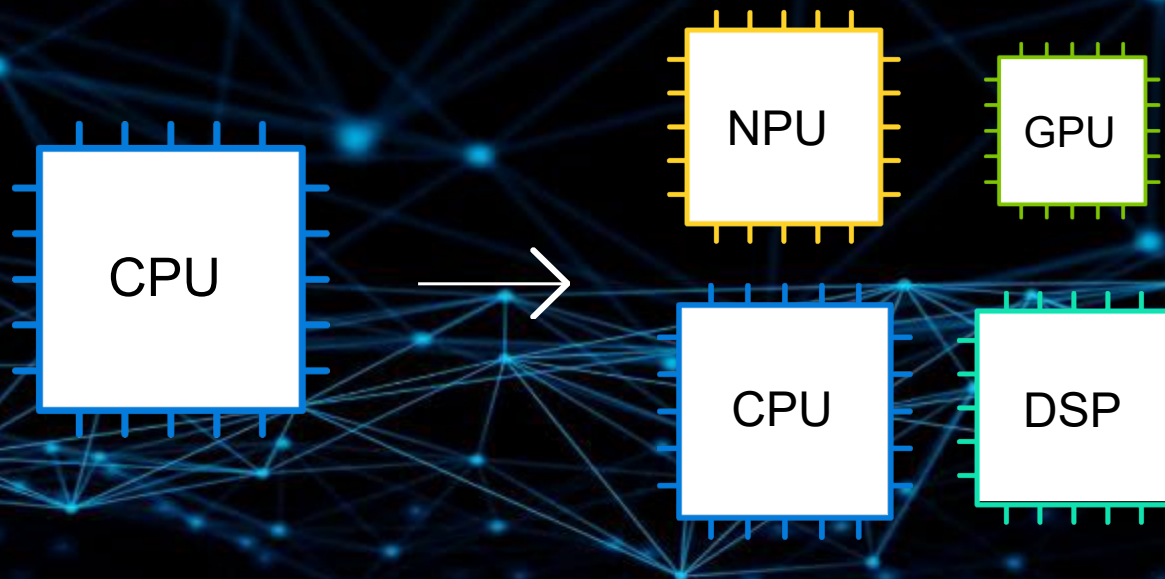
Products	akida				metaTF				
	IP			Reference SoC			Software Tools		
Partners									
Trusted By									

* Defining challenge for AI chips today is the intense computing pressure between:

- Power
- Performance
- Area

* Edge AI uses combined CPU, GPU, NPU to achieve efficient PPA.

* GPU and DSP are now being replaced by NPU.

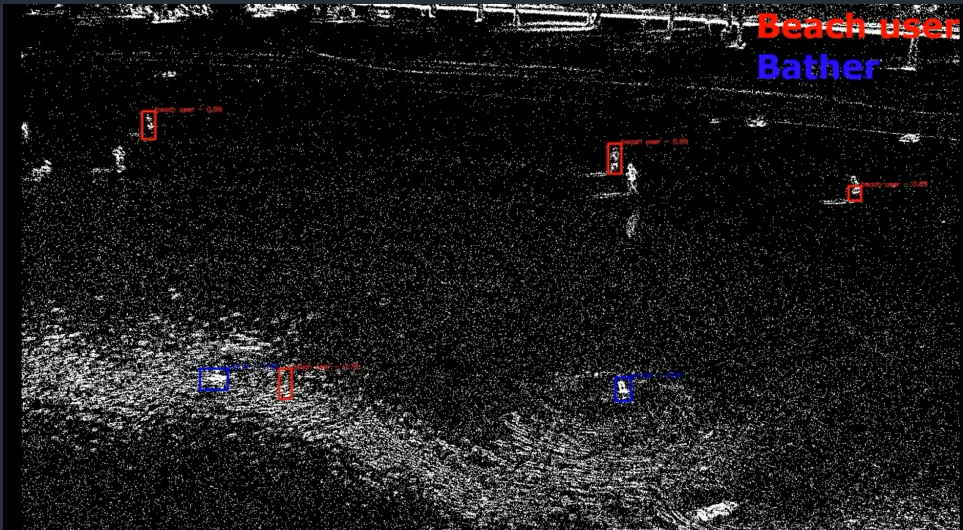


Objective:

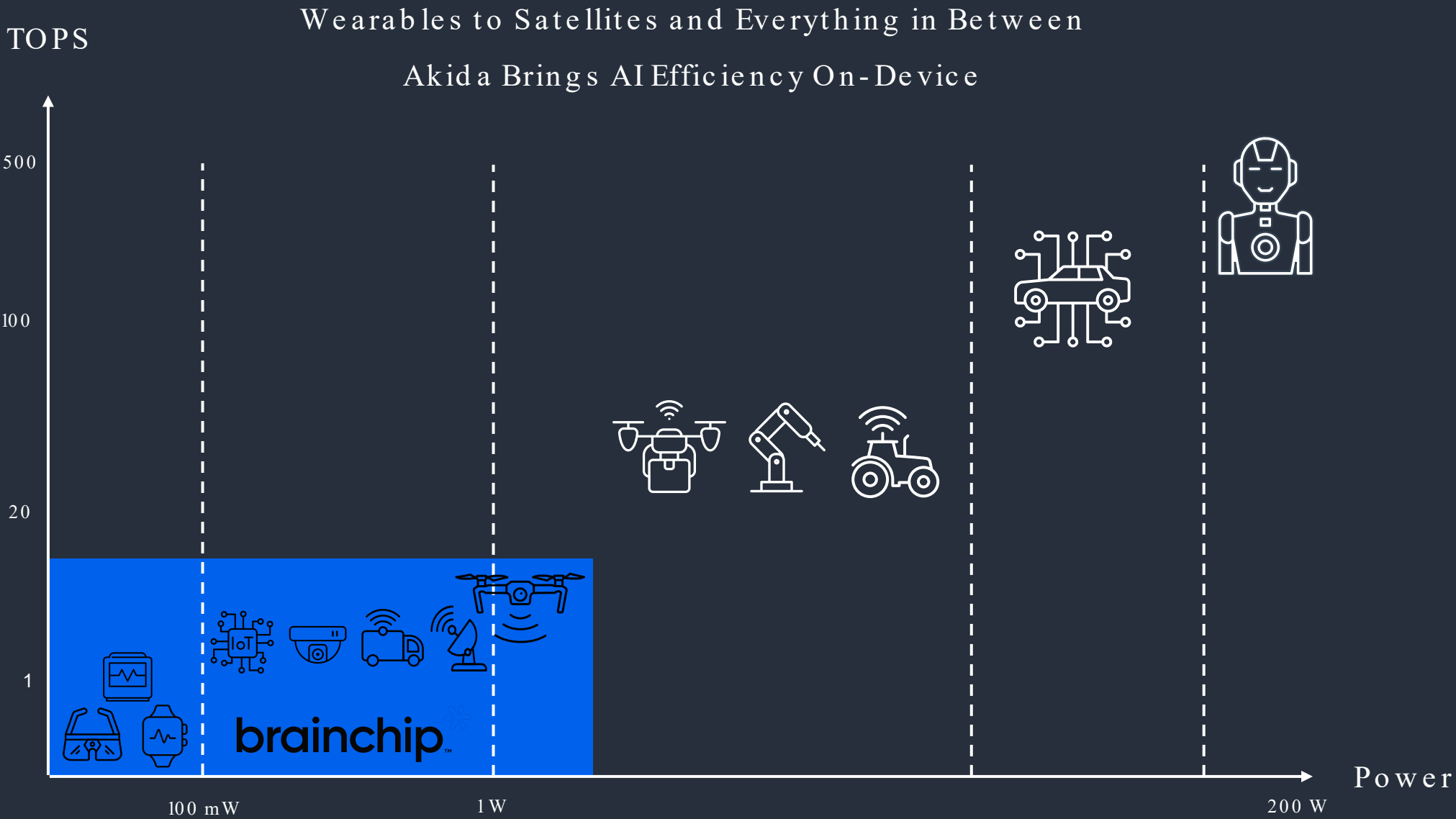
Deploy a drone which can detect distressed swimmers and surfers in the ocean , helping lifeguards scale their coverage to large beach areas.



Real World View



Detecting swimmers and beach goers using Akida event - based computation



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