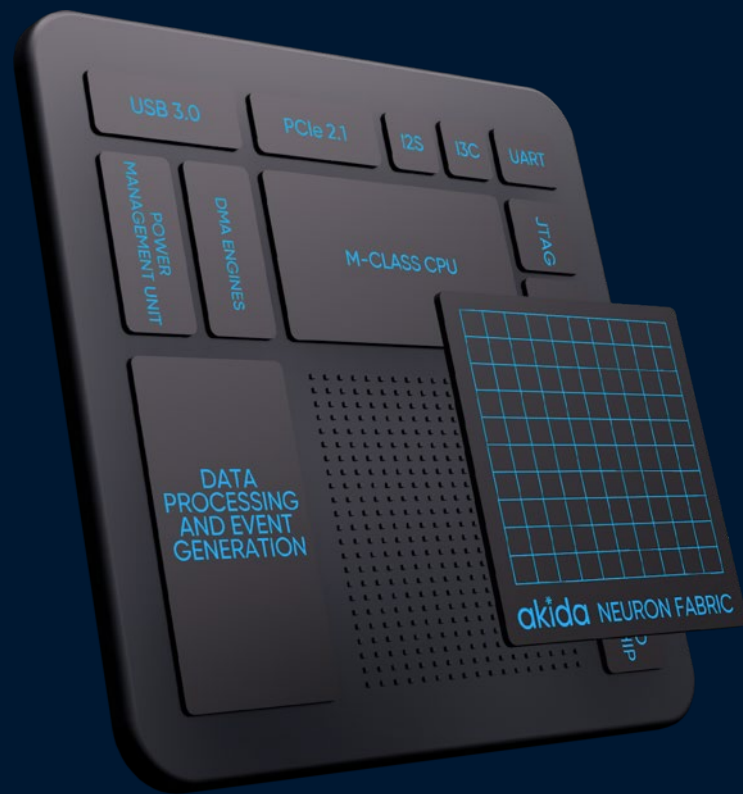




PITT STREET SEMICONDUCTOR CONFERENCE
SYDNEY, MAY 2025

BrainChip Overview



Pervasive
Adoption

Rapid Model
Innovation

Natural
Language
Emergence
(NLP & LLM)

Importance of
Inference

Silicon is the Foundation for AI

brainchipTM Shift from Cloud to the Edge



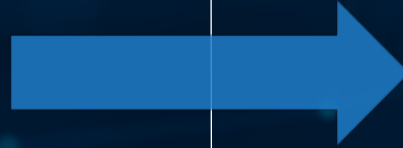
DataCenter

+ Key for training complex models

+ Driven by GenAI / LLM Training

- High energy consumption/cost

- Large infrastructure investment to scale



Edge

+ Model Inference

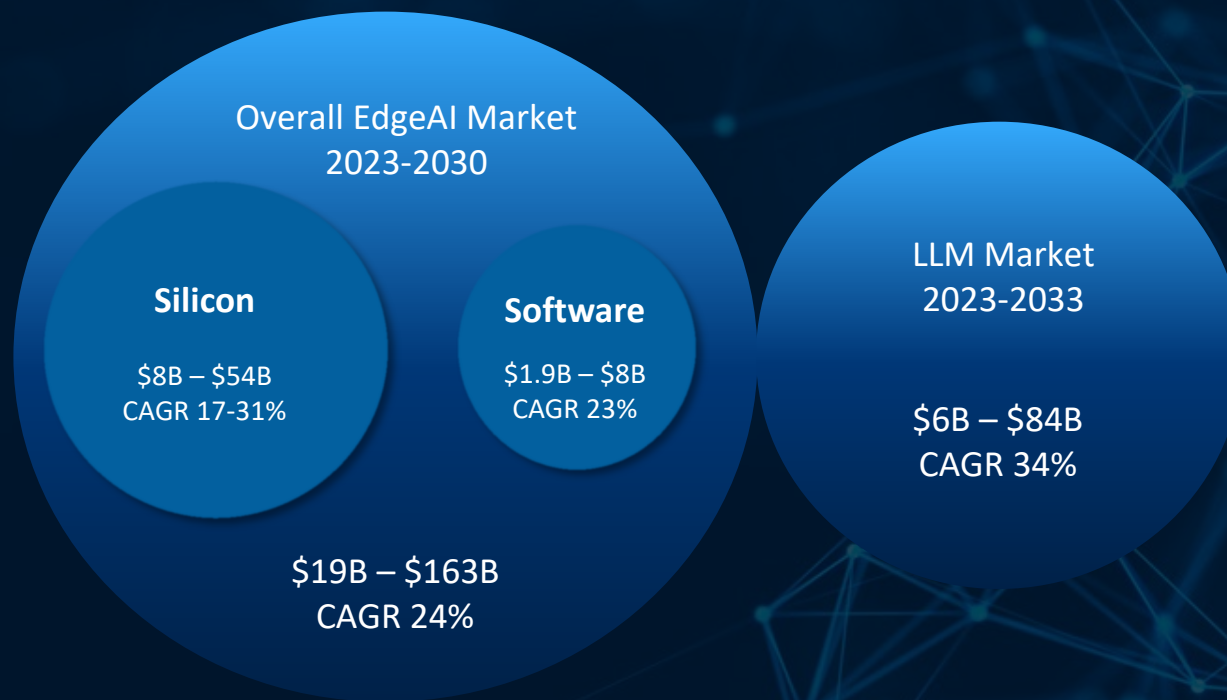
+ Operating cost efficiency

- Model size limitations

- Less mature toolchain ecosystem



Strong Growth for both EdgeAI & Edge LLM



brainchipTM Edge Dedicated Accelerators

Edge AI requires specialized hardware for efficient computation
Tight constraints:

- Power
- Performance
- Area



Dedicated AI chips unlock faster, more efficient, and powerful AI

Delivering AI IP & Silicon for ultra low-power Edge AI devices



IP

Silicon IP

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



tools

Software - MetaTF

- Complete SW development tools and programming environment



models

Models



Coming Soon



Edge LLM

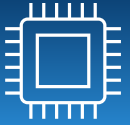


Edge VLM



	Akida 1	Akida 2	Akida GenAI	Akida 3
Hardware	<ul style="list-style-type: none"> • 1, 4-bit integer • Neuromorphic State Machine 	<ul style="list-style-type: none"> • 1, 4, 8-bit integer • Neuromorphic State Machine 	<ul style="list-style-type: none"> • 16, 32-bit Floating point • Neuromorphic (ISA) 	<ul style="list-style-type: none"> • 1, 4, 8, 16-bit integer • 16, 32-bit Floating point • Neuromorphic (ISA)
Software	<ul style="list-style-type: none"> • MetaTF model conversion 	<ul style="list-style-type: none"> • Enhanced MetaTF model conversion • 3rd Party Model Providers 	<ul style="list-style-type: none"> • Akida SDK for TENNs LLM • Direct use of open source SSMs, no conversion necessary • Distillation of very large models 	<ul style="list-style-type: none"> • Akida SDK for diverse models (TENNs and user's models) • 3rd Party Model Provider ecosystem
Models	<ul style="list-style-type: none"> • Simple convolutional neural networks (CNNs) 	<ul style="list-style-type: none"> • CNNs, TENNs, branching and recurrent topologies 	<ul style="list-style-type: none"> • TENNs and SSM open-source Large Language Models 	<ul style="list-style-type: none"> • CNNs, TENNs, SSMs, LLMs • Branching, recurrent and arbitrary topologies

brainchip[™] Business Model



License Fee



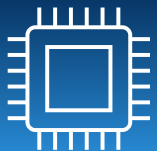
Royalties



Implementation Services



AI Shift from Cloud to Edge is under way



Dedicated optimized hardware is the enabler



Hardware market will consolidate to key leaders

Q&A

