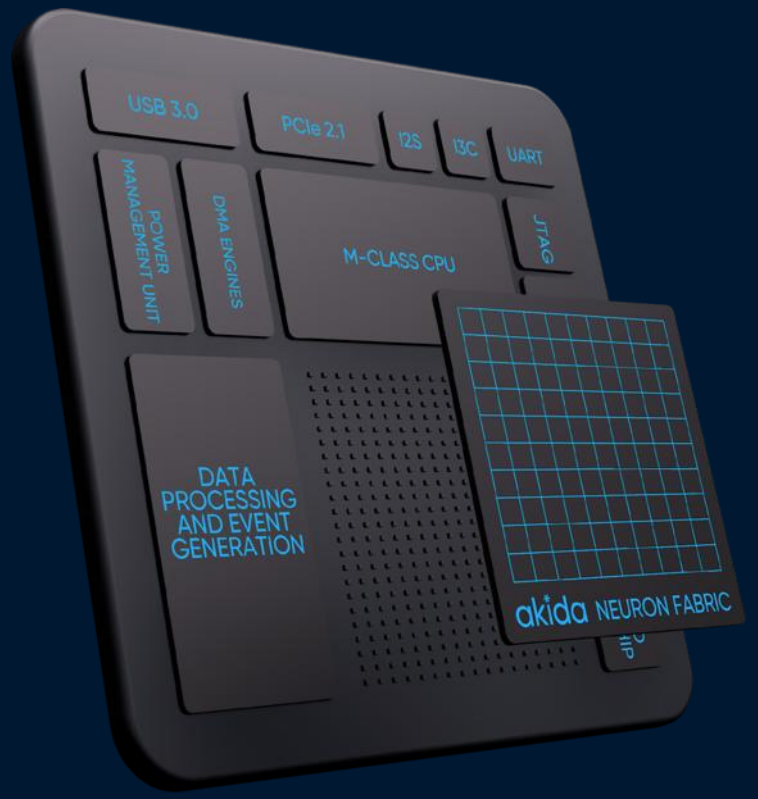
brainchip

Technology Roadmap Update



AGM Meeting: 05 May 2026

Roadmap Disclaimer

- The information contained in these presentations is intended to outline general product direction and Intention.
- The information presented is not a commitment, promise, or legal obligation. Roadmaps are subject to change.
- Any reference to the development, release, and timing of any features or functionality described for these products remains at Brainchip's discretion.
- Product capabilities, timeframes and features are subject to change.

Outline

- Recap and Progress
- Expanded Product Lines
- Next Decade View of the Akida Platform
- Next Decade View of Gen AI Platform
- 2026 Product Roadmap and Delivery Timeline

2025 Roadmap Overview

	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	• CNNs, TENNs, SSMs, LLMs • Branching, recurrent and arbitrary topologies

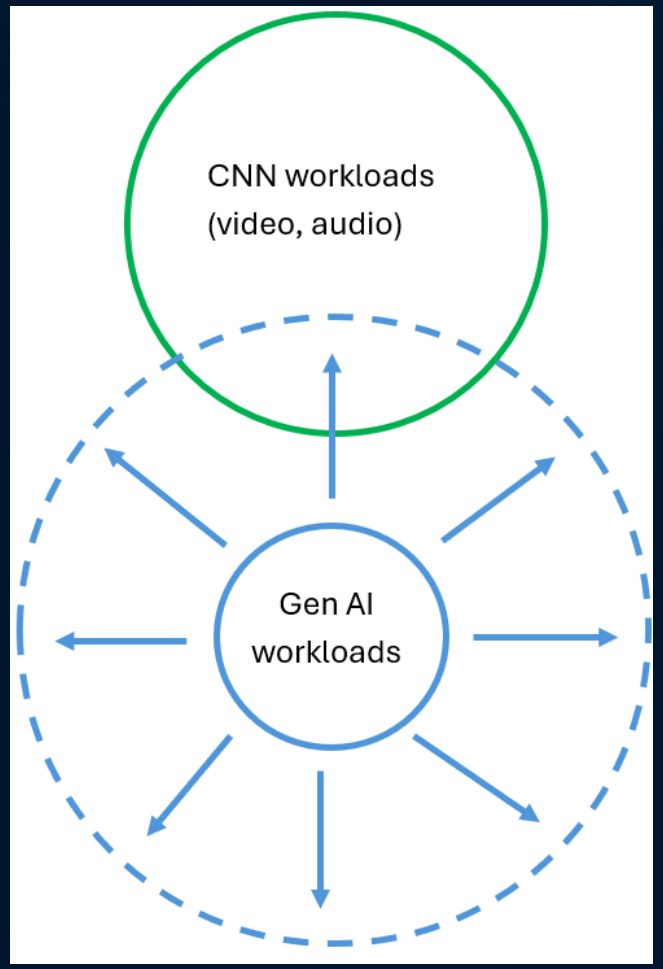
Progress in Last 12 Months

- Akida 2 Enhanced RTL built out
  - Akida 2.2
  - Akida Pico
- Significant enhancements to MetaTF Software
  - Automated hybrid model support
  - Expanded model zoo
- GenAI RTL (Project Sequent) substantial progress
- 4 Reference Designs
- Akida 1500 chips
- Akida 2500 chip in pilot run

brainchip Akida 10 Year Roadmap

	Akida 3	Akida 4	Akida 5
Hardware	• Larger input images • Spike-on-Delta layers • 1, 4, 8, 16-bit integer	• Chiplet Ready with UCIe • Asynchronous design	• MRAM or ReRAM based
Software	• Akida SDK for diverse models • 3rd Party Model Provider ecosystem	• Multiple ML Language Coverage (Includes JAX, Mojo, Julia)	• No-Code User Interface
Models	• Visual Transformer Model • Branching, recurrent & arbitrary topologies	• Combined Feedforward and Recurrent topologies	• Next-Generation ML Models

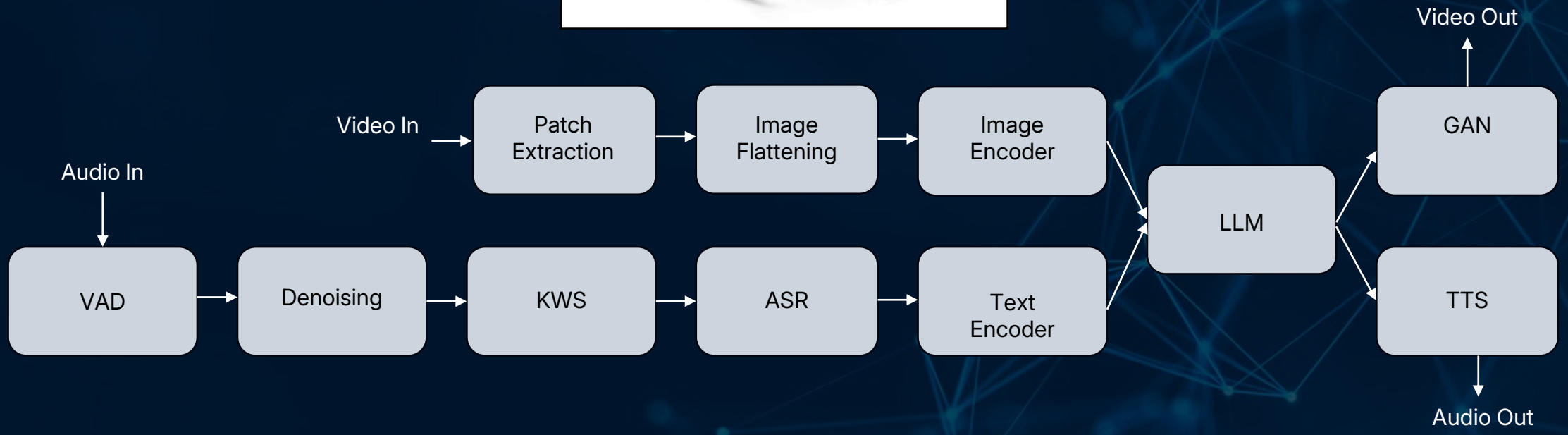
Optimized Architectures for All Edge AI Workloads



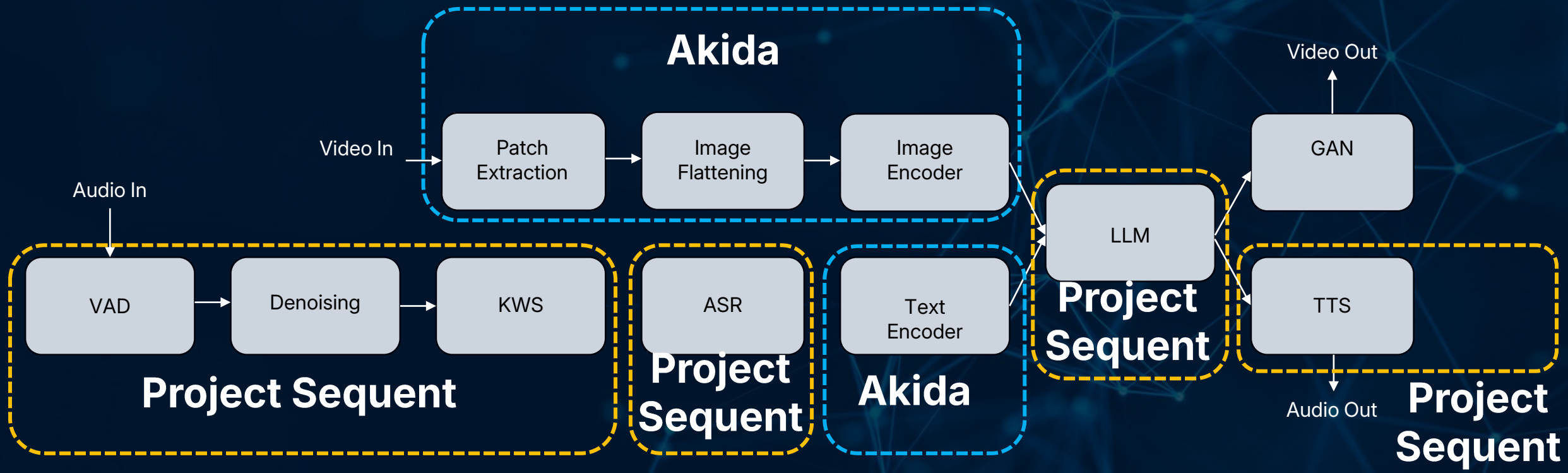
Akida 1 → Akida 2 → Akida 3 → Akida 4

Project Sequent 1 → Project Sequent 2 → Project Sequent 3 → Project Sequent 4

A Typical Wearable (Smart Glasses) System



A Typical Wearable (Smart Glasses) System
BrainChip Coverage



Sequent Roadmap Updates

	Akida GenAI (2025)	Project Sequent 1: Enhancements
Hardware	• 16, 32-bit Floating point • Neuromorphic (ISA)	• Direct Flash Access for Lower Power • Expanded Operator Coverage • Easy RISC-V Host Integration
Software	• Akida SDK for TENNs & LLM • Direct use of open-source SSMs — no conversion necessary • Distillation of very large models	• Full Software Stack • IDE Integration • Performance and Optimization • Wide coverage of BYO models
Models	• TENNs and SSM open-source Large Language Models	• 50 canonical models available • Transformers and non-SSM covered • Rapid distillation from large foundation models

brainchip Sequent Roadmap

	Project Sequent 1 / Gen AI	Project Sequent 2	Project Sequent 3
Hardware	• 16, 32-bit Floating point • Neuromorphic (ISA)	• Chiplet Ready with UCIe • Asynchronous design	• MRAM or ReRAM based
Software	• Akida SDK • Direct use of open-source SSMs • Distillation of large models	• Multiple ML Language Coverage (Includes JAX, Mojo, Julia)	• No-Code User Interface
Models	• TENNs and SSM open-source Large Language Models	• Autonomous Agents	• Next-Generation AI Models • (World Models)

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BrainChip Roadmap

	2025	H1 '26	H2 '26	2027	2028+
IP	• Akida 2.0	• Akida 2.2	• Project Sequent 1 • Pico	• Akida 3	• Project Sequent 2 • Pico 2
Silicon	• AKD 1500 Tape out	• AKD 1500 Production Chips Available	• AKD 2500 Prototype Tape out	• AKD 2500 Prototype • Project Sequent Prototype • Pico Prototype	• AKD 2500 Production • Project Sequent Production • Pico Production
Reference Architect-ures	**RA-01** ✓ *Released* Akida Tag **RA-02** ✓ *Released* Electronic Warfare	**RA-03** ✓ *Released* Radar **RA-04** ✓ *Released* Private Voice Assistant	*Future RA* *Future RA*	*Future RA* *Future RA*	*Future RA* *Future RA*

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