



ASX Announcement

BrainChip Initiates AKD2500 Next-Generation Silicon Project

- Strategic Advancement of Akida™ 2.0 Platform Roadmap
 - AKD2500 to be Fabricated Using TSMC 12nm Process Technology
 - Total Project Budget of US\$2.5 Million
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Sydney, Australia – 13 February 2026 – [BrainChip Holdings Ltd](#) (ASX: **BRN**, OTCQX: **BRCHF**, **BCHPY**), the world's first commercial producer of neuromorphic artificial intelligence technology, today announces the formal initiation of its AKD2500 custom silicon development project, representing a significant financial commitment aligned with the Company's next generation Akida™ 2.0 neuromorphic IP roadmap.-generation Akida™ 2.0 neuromorphic IP roadmap.

Project Overview

The AKD2500 project represents a deliberate investment in BrainChip's growth strategy, advancing the Company's next generation Akida™ 2.0 neuromorphic architecture into silicon. Implementing the device on TSMC's 12 nanometre process technology enables BrainChip to demonstrate its IP on an industry proven, widely adopted process node, ensuring customers can evaluate performance under conditions relevant to modern edge AI deployments.

The initial phase of the program will be undertaken through a multi-project wafer (MPW) pilot development, allowing for functional validation and manufacturability assessment prior to any consideration of risk or volume production.

The project has commenced following the execution of a number of binding third-party agreements, including an engagement with ASICLAND Co. Ltd for custom application-specific integrated circuit (ASIC) development services, including design support, fabrication (TSMC) coordination, packaging and testing, for a specialised integrated circuit aligned with BrainChip's strategic technology roadmap. Development activities for the AKD2500 are scheduled across staged milestones over the coming year, with prototype silicon expected in Q3 of 2026 following completion of the MPW cycle.

Financial Commitment

BrainChip expects the total budget for the AKD2500 silicon project to be approximately US\$2.5 million, covering development services, fabrication activities, packaging and testing, and the licensing of required third-party technology.

The Company anticipates that a material portion of this budget will be allocated to IP licence fees, reflecting the use of advanced design elements, process technologies and supporting intellectual property required for next-generation silicon development.

Expenditures under the project will be incurred on a staged basis, aligned with defined technical milestones across the pilot development program.

Strategic Context

The initiation of the AKD2500 development program is a strategic investment in growth, reinforcing BrainChip's long-term roadmap and reflecting the Company's disciplined approach to advancing next-generation neuromorphic solutions. This development effort leverages BrainChip's edge-AI differentiation by enabling customers to experience, measure, and confirm the advantages of event-based, low-power processing in a real-world silicon implementation. Demonstrating these capabilities is essential to expanding customer confidence and driving future engagement through IP licensing, system integration, and next-generation product cycles—consistent with the Company's ongoing message of building long-term strategic positioning in edge AI markets.

By delivering a platform that customers can validate in their own applications, AKD2500 strengthens BrainChip's position in emerging design cycles and accelerates opportunities within high-growth verticals such as defense, industrial, consumer, and intelligent sensing—areas where BrainChip has experienced significant interest and ecosystem expansion.

The AKD2500 program is a technology development initiative and is not dependent on, nor does it include any customer orders or commercial supply commitments.

Revenue and Production Status

The project does not include any guaranteed production volumes. Any transition beyond MPW pilot development, including risk production or volume manufacturing, would be subject to separate approvals, agreements and disclosures as required under ASX Listing Rules.

Intellectual Property

BrainChip retains ownership of its pre-existing and newly developed proprietary IP associated with the Akida™ technology platform. The project includes the licensing and use of selected third-party

IP necessary to support implementation of Akida™ 2.0 in silicon, in accordance with the applicable licence terms.

Quote from CEO Sean Hehir

“The initiation of the AKD2500 silicon project marks an important step forward in advancing our next-generation Akida™ 2.0 technology,” said BrainChip CEO Sean Hehir. “This chip gives customers a tangible way to evaluate the capabilities of our Akida™ 2.0 architecture, which is essential for expanding commercial engagement and driving future IP licensing opportunities. By progressing AKD2500 on TSMC’s 12-nanometre process, we are building the capability required for future customer and partner opportunities. This program strengthens our position in edge AI and represents a disciplined, strategic use of capital to accelerate our technology roadmap.”

Quote from ASICLAND CEO Jong-min Lee

"As a TSMC VCA partner, ASICLAND has long established its technical leadership in low-power Edge AI and turnkey design," said Jong-min Lee, CEO of ASICLAND. "This strategic partnership is a powerful convergence of our proven design expertise and BrainChip's industry-leading Akida IP." Lee added, "By leveraging this technical synergy, we aim to redefine the next-generation Edge AI landscape and deliver unparalleled value to the global market."

Authorisation

This announcement has been authorised for release by the Board of Directors of BrainChip Holdings Ltd.

About ASICLAND Co., Ltd. (KOSDAQ: 445090)

ASICLAND is a TSMC Value Chain Alliance (VCA) partner specializing in high-performance ASIC design and turnkey services. Headquartered in Korea, the company is rapidly scaling its global presence through an R&D center in Hsinchu, Taiwan, and business operations in San Jose, U.S. By leveraging its deep expertise in AI, memory, IoT/RF, and automotive solutions, ASICLAND provides a seamless bridge from architectural concept to functional silicon. As a trusted partner to both TSMC and Arm, the company integrates world-class design methodologies with robust supply chain management to accelerate time-to-market. ASICLAND is committed to redefining the global semiconductor landscape by delivering unparalleled technical integrity and innovative SoC solutions worldwide.

Explore more at www.asicland.com.

About BrainChip Holdings Ltd (ASX: BRN, OTCQX: BRCHF, ADR: BCHPY)

BrainChip is the worldwide leader in Edge AI on-chip processing and learning. The company's first-to-market, fully digital, event-based AI processor, Akida™, uses neuromorphic principles to mimic

the human brain, analysing only essential sensor inputs at the point of acquisition and processing data with unmatched efficiency, precision, and energy economy. BrainChip's Temporal Event-based Neural Networks (TENNs) build on State-Space Models (SSMs), deliver time-aware, event-driven intelligence optimized for scalable, real-time streaming applications. These innovations make low-power Edge AI deployable across industries such as aerospace, autonomous vehicles, robotics, industrial IoT, consumer devices, and wearables. BrainChip is advancing the future of intelligent computing, bringing AI closer to the sensor and closer to real-time. Explore more at www.brainchip.com.

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