



ASX Announcement

NASA places order under Akida Early Access Program

- NASA places order for BrainChip Akida Early Access Evaluation Kit for use at NASA/Ames Research Center (ARC)
 - The kit will enable NASA to evaluate the Akida technology for use in programs needing a neuromorphic processor that meets spaceflight requirements
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Aliso Viejo, Calif. – 23 December 2020 – [BrainChip Holdings Ltd](#) (ASX: BRN), a leading provider of ultra-low power, high-performance AI technology, today announced that the U.S. National Aeronautics and Space Administration (NASA) has ordered the Akida Early Access Evaluation Kit for use by the NASA Shared Service Center (NSSC) at the NASA/Ames Research Center (ARC) at Moffett Field in California. The kit will enable NASA to evaluate the Akida technology for use in programs with a neuromorphic processor that meets spaceflight requirements.

The Akida neuromorphic processor is well suited for spaceflight and aerospace applications. The device is a complete neural processor and does not require an external CPU, memory or Deep Learning Accelerator (DLA). Reducing component count, size and power consumption are paramount concerns in spaceflight and aerospace applications. The level of integration and ultra-low power performance of Akida supports these critical criteria. Additionally, Akida provides incremental learning. With incremental learning, new classifiers can be added to the network without retraining the entire network. The benefit in spaceflight and aerospace applications may be significant as real-time local incremental learning allows continuous operation when new discoveries or circumstances occur.

“We are both excited and proud that NASA has procured Akida as part of our Early Access Program,” said Louis DiNardo, BrainChip CEO. “The recognition that neuromorphic computing may play an important role in spaceflight applications is an important milestone for our industry. We hope that the potential benefits from the Akida neuromorphic processor for use in spaceflight and aerospace applications may provide a valuable contribution to further NASA’s primary mission to benefit humanity.”

The BrainChip Early Access Program is available to a select group of customers that require early access to the Akida device, evaluation boards and dedicated support. The EAP agreement includes a payment that is intended to offset the Company’s expenses to support partner needs.

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

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About Brainchip Holdings Ltd (ASX: BRN)

BrainChip is a global technology company that is producing a groundbreaking neuromorphic processor that brings artificial intelligence to the edge in a way that is beyond the capabilities of other products. The chip is high performance, small, ultra-low power and enables a wide array of edge capabilities that include on-chip training, learning and inference. The event-based neural network processor is inspired by the spiking nature of the human brain and is implemented in an industry standard digital process. By mimicking brain processing BrainChip has pioneered a processing architecture, called Akida™, which is both scalable and flexible to address the requirements in edge devices. At the edge, sensor inputs are analyzed at the point of acquisition rather than through transmission via the cloud to a data center. Akida is designed to provide a complete ultra-low power and fast AI Edge Network for vision, audio, olfactory and smart transducer applications. The reduction in system latency provides faster response and a more power efficient system that can reduce the large carbon footprint of data centers.

About NASA

The National Aeronautics and Space Administration (NASA) is an independent agency of the U.S. Federal Government responsible for the civilian space program, as well as aeronautics and space research. Its vision is to discover and expand knowledge for the benefit of humanity.

Forward looking statements

This announcement contains forward-looking statements, which address a variety of subjects including, for example product development, marketing position and technical advances. Statements that are not historical facts, including statements about our beliefs, plans and expectations, are forward-looking statements. Such statements are based on our current expectations and information currently available to management and are subject to a number of factors and uncertainties, which could cause actual results to differ materially from those described in the forward-looking statements. The Company's management believes that these forward-looking statements are reasonable as and when made. However, you should not place undue reliance on any such forward-looking statements because such statements speak only as of the date when made. We do not undertake any obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law or the ASX Listing Rules. In addition, forward-looking statements are subject to certain risks and uncertainties that could cause actual results, events, and developments to differ materially from our historical experience and our present expectations.

Additional information is available at <https://www.brainchipinc.com>
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