



ASX Announcement

BrainChip Announces Agreement With Tier-1 Automotive Manufacturer To Evaluate The Akida™ Neural Processor

- Detroit-based company to evaluate automotive uses for Akida™ Neural Processor
 - Companies to collaborate on the integration of Akida in automotive applications
 - Automotive manufacturer targets ADAS and AV solutions
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Aliso Viejo, California – 24, May 2020 – [BrainChip Holdings Ltd](#) (ASX: BRN), a leading provider of ultra-low power high performance AI technology announced the signing of a joint agreement for evaluation of the Akida neural network System-on-Chip (SoC) for Advanced Driver Assistance Systems (ADAS) and Autonomous Vehicle (AV) applications with a prominent Tier-1 automotive manufacturer.

BrainChip is manufacturing an advanced neural networking processor that brings artificial intelligence to the edge in a way that exceeds the capabilities of other neural network devices. This innovative, event-based, neural network processor is inspired by the event-based nature of the human brain. The resulting technology is high performance, small, ultra-low power and enables a wide array of edge capabilities including inference and incremental learning.

In ADAS and AV applications, real-time processing of imaging and other sensor data is critical for the safety, reliability and performance of many systems. The partner in this collaboration has recognized that due to the advanced and highly efficient neuromorphic nature of the Akida NSoC, it provides a wide range of potential solutions to difficult problems such as driver behavior analyses and real time object detection. The unique combination of extreme low power, high performance and on-chip learning allows for real time processing at the sensor combined with continuous learning. The objective is to enable personalization of each driver's experience in real time and continuous updates to the system as environmental conditions change.

“Our neural network technology enables ultra-low power AI technology to be implemented effectively in a wide range of edge applications such as ADAS and AV,” said Louis DiNardo, CEO of BrainChip. “Automotive applications have size and power consumption constraints that require a high degree of integration in integrated circuit and sensor solutions. We are excited to work with our partner who has world class engineering and is an innovation leader in the automotive field, where our joint efforts can yield some exciting applications, use-cases and potentially game-changing experience for drivers.”

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

About Brainchip Holdings Ltd (ASX: BRN)

BrainChip is a global technology company that has developed a revolutionary advanced neural networking processor that brings artificial intelligence to the edge in a way that exceeds the capabilities of other neural network devices. The solution is high performance, small, ultra-low power and enables a wide array of edge capabilities that include local training, learning and inference. The company markets an innovative event-based neural network processor that is inspired by the spiking nature of the human brain and implements the network processor in an industry standard digital process. By mimicking brain processing BrainChip has pioneered a spiking neural network, 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 AI Edge Network for vision, audio, olfactory, data and smart transducer applications. The reduction in system latency provides faster response and a more power efficient system that will reduce the large carbon footprint of data centers.

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

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