



ASX Announcement

BrainChip granted new US patent

- Patent US 11,227,210 “Event-based Classification of Features in a Reconfigurable and Temporally Coded Convolutional Spiking Neural Network” is the 8th patent issued to BrainChip
 - Protecting BrainChip’s Intellectual Property remains a strong focus for preserving global competitive advantage
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Sydney – 19 January 2022: BrainChip Holdings Ltd (ASX:BRN, OTCQX: BRCHF), the world’s first and only commercial producer of neuromorphic artificial intelligence chips today announced that the US Patents and Trademarks Office has issued a US patent for Event-based Classification of Features in a Reconfigurable and Temporally Coded Convolutional Spiking Neural Network.

BrainChip CTO and founder Peter van der Made said, “This latest patent is one of 8 patents we’ve secured since 2008 to protect our intellectual property rights to ensure we maintain our global competitive advantage in the field of neuromorphic artificial intelligence.

As the world’s first and only commercial producer of neuromorphic artificial intelligence chips (Akida1000), we must maintain our lead over our competitors by ensuring our unique and revolutionary technology is protected and secure.”

Key features of Patent US 11,227,210

- The patent protects BrainChip’s neuromorphic processor configured to perform convolutions on digital input data that has been converted into spikes.
- Further, protection extends to BrainChip’s learning function, implemented at the individual neuron (hardware) level.

Convolutional Neural Networks (CNN) are the dominant AI method used to process images. CNN’s consisting of several layers are typically followed by a final classification layer. BrainChip Akida neural processors are configurable as both CNN and fully connected (classification) neurons, thus enabling a wide range of existing AI applications used in industry to be ported to Akida.

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 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 centre. 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 centres.

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