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BrainChip Sponsors tinyML Summit and Will Demonstrate How Akida Technology Accelerates Machine Learning at the Edge

SAN FRANCISCO, March 05, 2019 (GLOBE NEWSWIRE) -- BrainChip Holdings Ltd ("BrainChip" or the "Company") (ASX:BRN), the leading neuromorphic computing company, is pleased to announce it will be a sponsor for the inaugural tinyML Summit. The tinyML Summit is an elite gathering of experts developing and commercializing machine learning for energy efficient applications. BrainChip will demonstrate how the company's Akida NSoC and Akida Development Environment accelerates machine learning at the edge. The tinyML Summit being held on March 20-21, 2019 on the Google campus in Sunnyvale, California.

Tractica market research expects that the AI chipset market will be worth US\$66 billion and that two-thirds of this market will be at the edge. The small, low cost and low power Akida Neuromorphic System-on-Chip (NSoC) – developed by BrainChip – is optimized for edge applications. Its high performance and low power makes it ideal for applications such as advanced driver assistance systems (ADAS), autonomous vehicles, drones, vision-guided robotics, surveillance and machine vision systems. The Akida NSoC accelerates spiking neural networks (SNNs), which are inherently lower power than traditional convolutional neural networks (CNNs). This is because they replace the math-intensive convolutions and back-propagation training methods with biologically inspired neuron functions and feed-forward training methodologies. BrainChip's research has determined an optimal neuron model and training methods, bringing unprecedented efficiency and accuracy. Each Akida NSoC has effectively 1.2 million neurons and 10 billion synapses, representing 100 times better efficiency than previously introduced neuromorphic test chips.

"Machine learning on tiny, cheap, low-power devices will help us solve all sorts of problems, from spotting issues with factory machinery to building better user interfaces for consumer devices, so Google is excited to sponsor the tinyML summit," said Pete Warden of Google and Co-Chair of the tinyML Summit. "We hope this event will bring together experts from a lot of different disciplines, and better define the emerging field of embedded AI."

The inaugural tinyML Summit is an invitation-only forum discussing the different ways of developing and commercializing ultra-low power Machine Learning (ML) technologies and applications. Attended by invited industry experts and academia, the event focuses on new techniques to address technological challenges created by a greater level of processing at the edge, focusing on areas like dedicated hardware acceleration, algorithms, networking, low-power software, systems, and sensors. For more information: <http://www.tinymlsummit.org/#home>. Although the Summit is by invitation only, those interested in future tinyML activities may register here: <https://fs24.formsite.com/meptec/182/index.html>.

About BrainChip Holdings Ltd (ASX:BRN)

BrainChip Holdings Ltd is the leading provider of neuromorphic computing solutions, a type of artificial intelligence that is inspired by the biology of the human neuron. The Company's revolutionary new spiking neural network technology can learn autonomously, evolve and associate information just like the human brain. The proprietary technology is fast, completely digital and consumes very low power. The Company provides software and hardware solutions that address the high-performance requirements in civil surveillance, gaming, financial technology, cybersecurity, ADAS, autonomous vehicles, and other advanced vision systems. www.brainchip.com

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