

Weebit Nano Ltd

16:25 11 Feb 2019

Weebit Nano to collaborate with Israel Institute of Technology on real processing-in-memory project

Weebit Nano Ltd (ASX:WBT) is to collaborate in research with the Israel Institute of Technology (Technion) to examine the possible use of ReRAM memories in a novel computing architecture.

The company and the team at the Technion, led by Professor Shahar Kvatinsky, will perform characterisation and implementation of logic operations using Weebit's SiOx ReRAM test chips.

This is to demonstrate basic logic operations on a ReRAM array using the Technion's MAGIC (Memristor Aided Logic) technique implementing 'real processing-in-memory' (real PIM).

READ: Weebit Nano achieves excellent test results for its memory technology

Weebit chief executive officer Coby Hanoch said the company was constantly looking for opportunities to utilise its ReRAM in the most advanced and innovative fields.

Hanoch said: "We believe that ReRAM, in addition to being the next generation memory element, will also be part of the computing revolution enabling novel architectures mixing logic and memory to allow significant power-efficient processing-in-memory computing.

"We believe that by collaborating on this with the Technion, one of the leading research institutes in this domain, we can better prepare for yet another use for our unique SiOx ReRAM technology."

Potential to revolutionise current computing architectures

Although ReRAM technology is targeted for next generation memory devices, there is huge potential for ReRAM to be used as logic circuits to revolutionise current computing architectures.

Traditional computing architectures, or 'von Neumann' architectures, have a clear distinction between processing and memory - the memory component and central processing unit (CPU) are separate devices, with memory serving only as 'dumb' storage from which the CPU reads and writes.

These 'read' and 'write' transactions require substantial amounts of time and energy, increasing the power consumption of the chip and being relatively slow.

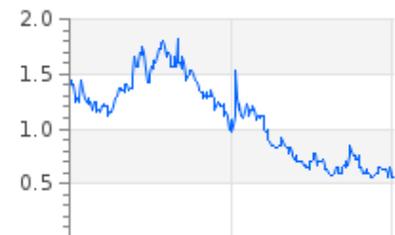
Real PIM enables up to 1,000-times less power use

With real PIM, ReRAM elements are used as 'logic gates', allowing the computer to perform logical operations inside the memory on the same devices

Price: A\$0.56

Market Cap: A\$35.64M

1 Year Share Price Graph



February 2018 August 2018 February 2019

Share Information

Code: WBT

Listing: ASX

52 week High Low
A\$2.00 A\$0.55

Sector: Tech

Website: weebit-nano.com

Company Synopsis:

Weebit is an exciting venture that is leading the way into the future of computer memory storage, and plans to become the new industry standard in this space.

Author:

Proactive Investors Australia

+61 (0)2 9280 0700

action@proactiveinvestors.com.au

that store data.

In other words, the computer can perform computation inside the ReRAM arrays rather than in the CPU.

This is much faster and uses up to 1,000-times less power by avoiding the need to export and import data between the memory chip and CPU.

Collaborative approach

The Technion's professor Kvatinsky said the institute had been investigating real PIM for several years.

Kvatinsky said: "Our MAGIC technique utilises the unique characteristics of emerging memories such as ReRAM where the same cells can be used for both memory and logic.

"We are very proud to cooperate with Weebit, a leader in the ReRAM domain, on this research and to use their test chips as the basis for this research."

Proactive Investors facilitate the largest global investor network across 4 continents in 4 languages. With a team of analysts journalists & professional investors Proactive produce independent coverage on 1000's of companies across every sector for private investors, private client brokers, fund managers and international investor communities.

Contact us +61 (0)2 9280 0700 action@proactiveinvestors.com.au

No investment advice

The information on this Site is of a general nature only. It does not take your specific needs or circumstances into consideration, so you should look at your own financial position, objectives and requirements and seek financial advice before making any financial decisions. You acknowledge and understand that neither the Company, its related bodies corporate, the information providers or their affiliates will advise you personally about the nature, potential value or suitability of any particular security, portfolio of securities, transaction, investment strategy, or other matter. You should read our FSG and any other relevant disclosure documents and if necessary seek persona advice prior to making any investment decision.

You understand and agree that no Content (as defined below) published on the Site constitutes a recommendation that any particular security, portfolio of securities, transaction, or investment strategy is suitable or advisable for any specific person.

You understand that in certain circumstances the Company, its related bodies corporate, the information providers or their affiliates may have received, or be entitled to receive, financial or other consideration in connection with promoting, and providing information about, certain entities on the Site and in communications otherwise provided to you.

You understand that price and other data is supplied by sources believed to be reliable, that the calculations herein are made using such data, and that neither such data nor such calculations are guaranteed by these sources, the Company, the information providers or any other person or entity, and may not be complete or accurate. From time to time, reference may be made in our marketing materials to prior articles and opinions we have published. These references may be selective, may reference only a portion of an article or recommendation, and are likely not to be current. As markets change continuously, previously published information and data may not be current and should not be relied upon.

Before you act on any general advice we provide, please consider whether it is appropriate for your personal circumstances.