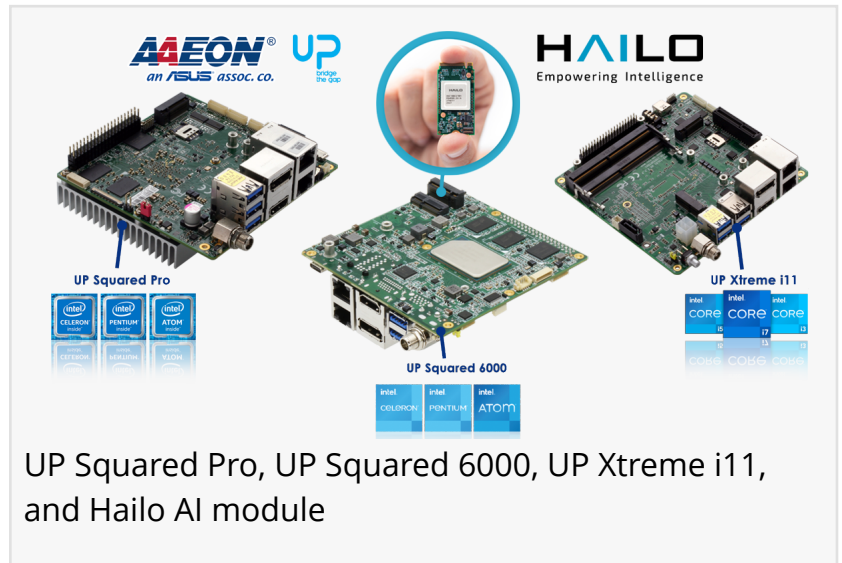


AAEON Partners with AI Chipmaker Hailo to Enable Next-Gen AI Applications at the Edge

UP Bridge the Gap platforms are now compatible with the Hailo-8 AI module, offering unprecedented AI performance for edge devices across industries.

EINDHOVEN, NETHERLANDS, February 16, 2022 /EINPresswire.com/ -- [UP Bridge the Gap](#), a brand of AAEON – a leading manufacturer of AI Edge hardware solutions – is pleased to announce a partnership with [Hailo](#), a leading Artificial Intelligence (AI) chipmaker, to meet skyrocketing demands for next-generation AI applications at the edge. The latest UP Bridge the Gap platforms are compatible with Hailo's Hailo-8 M.2 AI Acceleration Module, offering unprecedented AI performance with best-in-class power efficiency.



UP Squared Pro, UP Squared 6000, UP Xtreme i11, and Hailo AI module

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This partnership with Hailo benefits our clients even further with their growing demand for AI applications that run quickly and efficiently at the edge.”

Owen Wei, Business
Development Manager

Edge computing requires increasingly intensive workloads for computer vision and other artificial intelligence tasks, making it increasingly important to move Deep Learning workloads from the cloud to the edge. Running AI applications at the edge ensures real-time inferencing, data privacy, and low latency for smart city, smart retail, Industry 4.0, and many other applications across various markets.

UP Bridge the Gap edge platforms pair the latest Intel processors with the Hailo-8 AI Module to increase on-device inference and execution speed of AI models. Reallocating the computing resource of AI-based tasks from the CPU/GPU to the Hailo-8 neural processing unit (NPU) provides greater flexibility and possibilities for edge computing applications.

The Hailo-8 M.2 AI Module delivers 26 tera-operations per second (TOPS) at a record-breaking

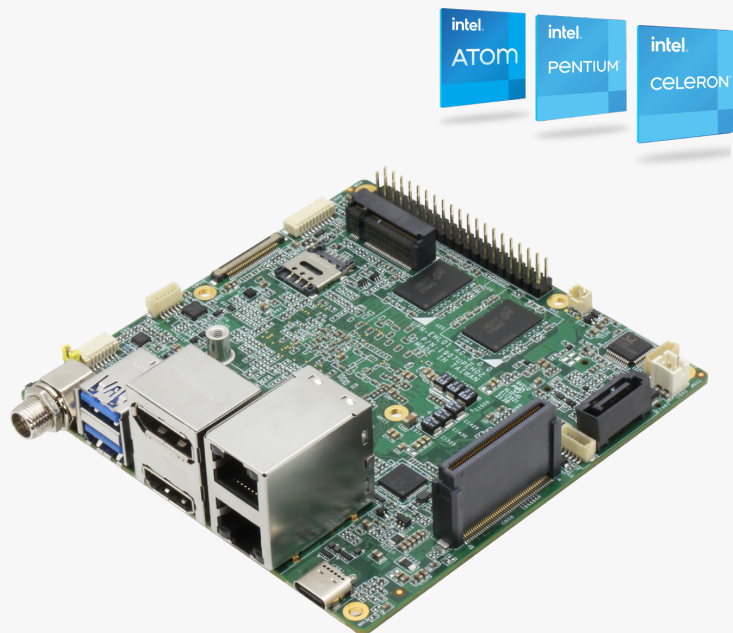
average rate of 2.5 watt. This means developers can run sophisticated Deep Learning and computer vision applications at the edge while keeping power consumption at an absolute minimum.

"This partnership with Hailo benefits our clients even further with their growing demand for AI applications that run quickly and efficiently at the edge," said Owen Wei, Business Development Manager at AAEON. "AAEON is committed to providing customers exceptional computing performance for their everyday business needs. Hailo helps us bolster our offering while enabling a future powered at the edge."

"Enterprises require solutions that are more powerful, versatile, responsive, and secure. AI at the edge is key to meeting these demands," said Liran Bar, VP Business Development at Hailo. "We're proud to work with AAEON to enable a new era of edge computing, while bringing unmatched edge processing solutions to customers across industries."

The latest UP Bridge the Gap platforms are compatible with the Hailo-8 M.2 2280 B+M key AI Module. These compact edge computing devices have impressive industrial features ranging from power-efficiency to high-performance.

Starting with the UP Squared Pro, which is based on the Intel Atom® E3900 series (formerly Apollo Lake), developers enjoy power-efficient performance on a cost-effective device. The processors can reach speeds up to 2.5 GHz. UP Squared Pro supports up to



UP Squared 6000



UP Squared 6000 board



UP Xtreme i11



UP Xtreme i11 board

8GB of LPDDR4 memory and offers up to 64GB eMMC storage.

With the same compact form factor as the UP Squared Pro, the recently released [UP Squared 6000](#) is based on the latest Intel Atom x6000E series (formerly Elkhart Lake). UP Squared 6000 is also an impressive power-efficient platform, but it offers up to 1.7 times better compute performance and twice the performance for 3D graphics as UP Squared Pro. UP Squared 6000 has a range of processor options, so it can reach speeds from 1.90 GHz to 3 GHz. UP Squared 6000 is available with up to 8GB of LPDDR4 memory and up to 64GB eMMC storage.

Developers looking for exceptional computing performance should opt for the UP Xtreme i11. Featuring the 11th Generation Intel Core Processors (formerly Tiger Lake), the UP Xtreme i11 can clock up to 4.4GHz with only 28 watts TDP and 15 watts cTDP. It supports up to 64GB with two slots for DDR4 SO-DIMM memory and offers a slot for a SATA III disk or NVMe disk.

The Hailo-8 M.2 AI Acceleration Module is now available for purchase as an add-on with the UP Squared Pro, UP Squared 6000, and UP Xtreme i11. For more information on how to set-up the Hailo AI Module with the UP platforms and other related documents, visit UP Bridge the Gap on Github at <https://github.com/up-board/up-community/wiki/Hailo>.

[Media Kit Download]

https://up-board.org/images/PR/Advanced_AI_with_Hailo.zip

[About AAEON and UP Bridge the Gap]

Established in 1992, AAEON is one of the leading designers and manufacturers of industrial IoT and AI Edge solutions. With continual innovation as a core value, AAEON provides reliable, high-quality computing platforms including industrial motherboards and systems, rugged tablets, embedded AI Edge systems, uCPE network appliances, and LoRaWAN/WWAN solutions.

UP Bridge the Gap is a brand founded by AAEON Technology Europe in 2015. The UP team aims to bring innovation in technology, business models, and integrated solutions. The UP team collaborates with market leaders in different vertical markets to develop integrated solutions and build a large online community to work closely with developers.

[About Hailo]

Hailo, an AI-focused, Israel-based chipmaker, has developed a specialized AI processor that delivers the performance of a data center-class computer to edge devices. Hailo's processor is the product of a rethinking of traditional computer architecture, enabling smart devices to perform sophisticated deep learning tasks such as object detection and segmentation in real-time, with minimal power consumption, size, and cost. The processor is designed to fit into a multitude of smart machines and devices, impacting a variety of sectors including automotive, Industry 4.0, smart cities, smart homes, and retail. For more information visit <https://hailo.ai/>

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