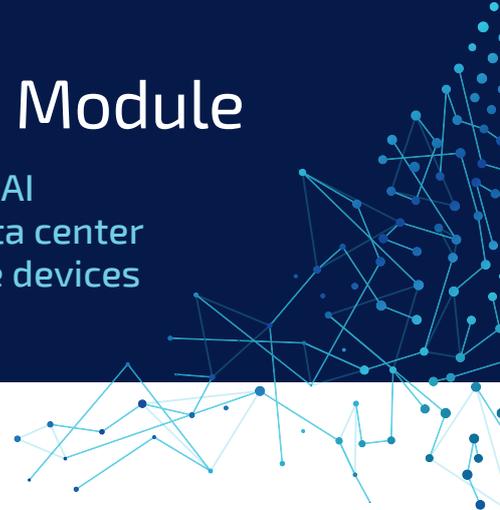# HAILO
Empowering Intelligence

Hailo-8™ M.2 AI Acceleration Module

An accelerator module for AI applications delivering data center class performance to edge devices

Hailo-8™ M.2 AI Acceleration Module

The Hailo-8™ M.2 Module is an accelerator module for AI applications, based on the 26 tera-operations per second (TOPS) Hailo-8™ processor, compatible with NGFF M.2 form factor.

The M.2 module can be plugged into an existing edge device with M.2 socket to execute deep neural network inferencing in real-time utilizing low power for a broad range of market segments.

Target Markets

| Smart City
| Smart Home
| Smart Retail
| Industry 4.0

KEY Features and Benefits

- Powered by 26 TOPS Hailo-8™ AI Processor with best-in-class power efficiency of 3 TOPS/W

- Enabling real-time, low latency and high-efficiency AI inferencing on edge devices

- Fast time to market using standard form factor module

- Leveraging Hailo's comprehensive Dataflow Compiler and its support for standard AI frameworks, customers can easily and quickly port their Neural Network model

Ordering Information

Purchase the Hailo-8™ M.2 Module here
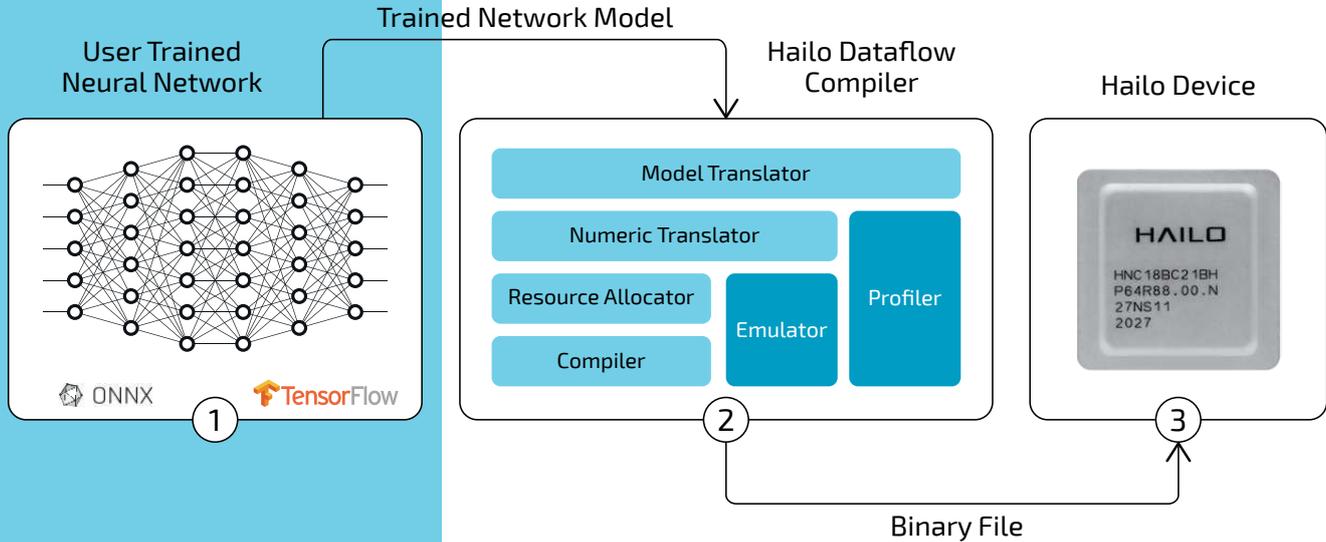
Technical Specifications

- Form Factor: NGFF M.2 M-Key

- Dimensions: 22 x 42 with breakable extensions to 22 x 60 and 22 x 80 mm

- Interface: PCIe Gen-3.0, 4-lanes

- Supported AI Frameworks: TensorFlow and ONNX

- Supported OS: Linux and Windows (Coming soon)

- Supported host hardware: x86 based architecture or ARM AArch64 based architecture

Featuring Hailo-8™ AI Processor

The Hailo-8™ AI processor, featuring up to 26 tera-operations per second (TOPS), significantly outperforms all other edge AI processors. Its area and power efficiency are far superior to other leading solutions by an order of magnitude.

With an architecture that takes advantage of the core properties of neural networks, edge devices can now run deep learning applications at full scale more efficiently, effectively, and sustainably than traditional solutions, while significantly lowering costs.

Hailo Dataflow Compiler

Trained Network Model

User Trained Neural Network — ONNX, TensorFlow — 1

Hailo Dataflow Compiler — Model Translator, Numeric Translator, Resource Allocator, Compiler, Emulator, Profiler — 2

Hailo Device — HAILO HNC18BC21BH P64R88.00.N 27NS11 2027 — 3

Binary File

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