

Hailo-8 M.2 Starter Kit

Delivering data center class performance to edge devices



Key Features & Benefits

Powered by 26 Tera-Operations Per Second (TOPS) Hailo-8 AI Processor

Best-in-class power efficiency

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

Highest cost-efficiency (TOPS/\$) compared with existing solutions

Scalable, enabling simultaneous processing of multi-streams & multi-models

Robust software suite supports state-of-the-art deep learning models & applications out-of-the-box

Supporting extended temperature range of -40°C to 85°C

Fast time to market using a standard form factor module, with key M, key B+M & key A+E
→ Optional extensions for Key M & Key B+M

Technical Specifications

Form factor options
M.2 key M, key B+M, key A+E

Dimensions
→ Key M, B+M: 22×80 mm with breakable extensions to 22×42 mm & 22×60 mm
→ Key A+E, 22×30 mm

Interface
PCIe Gen-3.0, 2-lanes (4-lanes in key M)

Supported host architectures
X86 or ARM based

Supported OS
Linux, Windows

Supported AI frameworks
TensorFlow, TensorFlow Lite, Keras, PyTorch & ONNX

Featuring the Hailo-8 AI Processor

The Hailo-8 AI processor, delivering 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.

Hailo-8 unique, powerful and scalable structure-driven dataflow architecture takes advantage of the core properties of neural networks. It enables edge devices to run deep learning applications at full scale more efficiently, effectively, and substantially than traditional solutions, while significantly lowering costs.

What's in the Box?

Compatible with M.2 form factor, the Hailo-8 based modules can be plugged into an existing edge device with an M.2 socket.

1 Single M.2 module:



M.2 Key M (2280)

OR



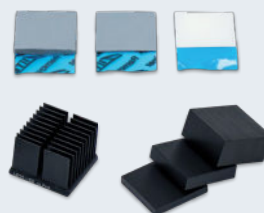
M.2 Key B+M (2280)

OR



M.2 Key A+E (2230)

2 Thermal management kit includes metal cubes, thermal pads, and thermal adhesive tape

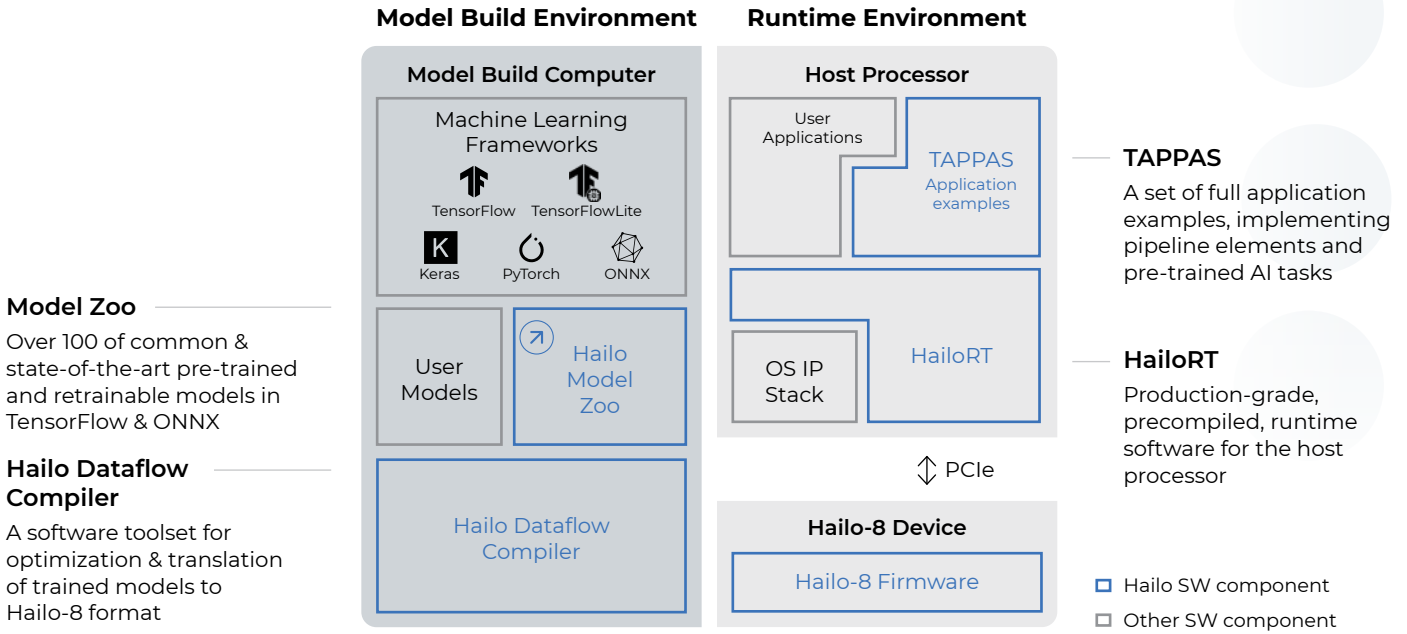


3 Screw & screwdriver



Comprehensive Software Suite

AI software suite which seamlessly integrates with existing deep learning development frameworks to allow smooth and easy integration in existing development ecosystems. The Hailo AI software suite includes:



Hailo Ecosystem

Hailo collaborates with leading partners to seamlessly integrate their products with ours, creating easy-to-use, dependable, and highquality solutions that adhere to the industry's most rigorous standards. Our extensive network of trusted partners covers various regions and market segments, delivering innovative solutions to our customers.

To view our extensive network [click here](#)

System Usage

M.2 module connected to the various types of host processors via PCIe.



Part Numbers

- Hailo-8 2280 M key M.2 module Starter Kit Extended Temperature: HM218B1C2XAE
- Hailo-8 2230 A+E key M.2 module Starter Kit Extended Temperature: HM218B1C2YAE
- Hailo-8 2280 B+M key M.2 module Starter Kit Extended Temperature: HM218B1C2ZAE

