



Hailo-8L Entry-Level M.2 AI Acceleration Modules

Delivering data center class performance to edge devices



Key Features & Benefits

Powered by 13 Tera-Operations Per Second (TOPS) Hailo-8L AI processor

Best-in-class power efficiency

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

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

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

Scalable:

Fast time to market using a standard M.2 form factor module, with key B+M & key A+E

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

- Enabling simultaneous processing of multi-streams & multi-models
- Future-ready — software compatibility when migrating to Hailo-8 for more powerful AI

Technical Specifications

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

Interface
PCIe Gen-3.0, 2-lanes

Supported OS
Linux, Windows

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

Supported host architectures
X86 or ARM based

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

Hailo-8L M.2 AI Acceleration Modules

Compatible with M.2 form factor, the Hailo-8L based modules can be plugged into an existing edge device with an M.2 socket to execute deep neural network inferencing in real-time utilizing low power for a broad range of market segments.



M.2 Key B+M (2242/2260/2280)



M.2 Key A+E (2230)

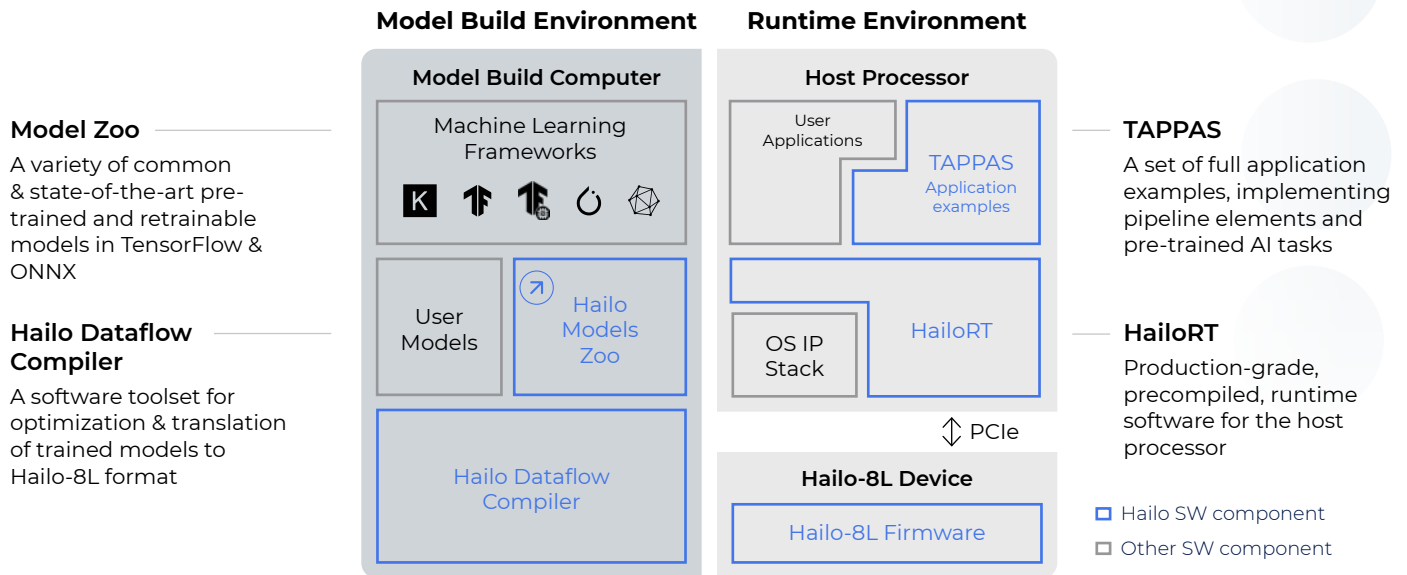
Featuring the Hailo-8L AI Processor

The Hailo-8L AI processor, delivering up to 13 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-8L 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.

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 is future proof, supporting all Hailo-8 product lines, and includes:



Hailo Ecosystem

Hailo collaborates with partners globally to offer products for edge solutions — from small and fanless devices, to ruggedized industrial appliances, high capacity video analytics platforms, embedded computing platforms for automotive & robotics and more.

To select your Hailo-based AI platform [click here](#)

System Usage

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

