Hailo-8L Entry-Level AI Accelerator

Delivering data center class performance to edge devices



Key Features & Benefits

13 Tera-Operations Per Second (TOPS)

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

Easy hardware integration; Does not require external memory

Best-in-class power efficiency with typical power consumption of 1.5W

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

Commercial & industrial grades, supporting -40°C to 85°C

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

Scalable:

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

Key Benefits of High-Performance AI Analytics on the Edge

Advanced AI video analytics for:

- High accuracy & ability to detect small objects
- Detection of fast-moving objects
- Significant reduction in false alerts
- Generation of comprehensive metadata

Low latency & real-time alerts

Efficiency & cost-savings

Hailo-8L Offering

Chip On Board (COB)

Hailo-8L



Modules enable fast time to market & easy HW integration



Hailo-8L M.2 Key B+M



Hailo-8L M.2 Key A+E

Hailo-8L Architecture

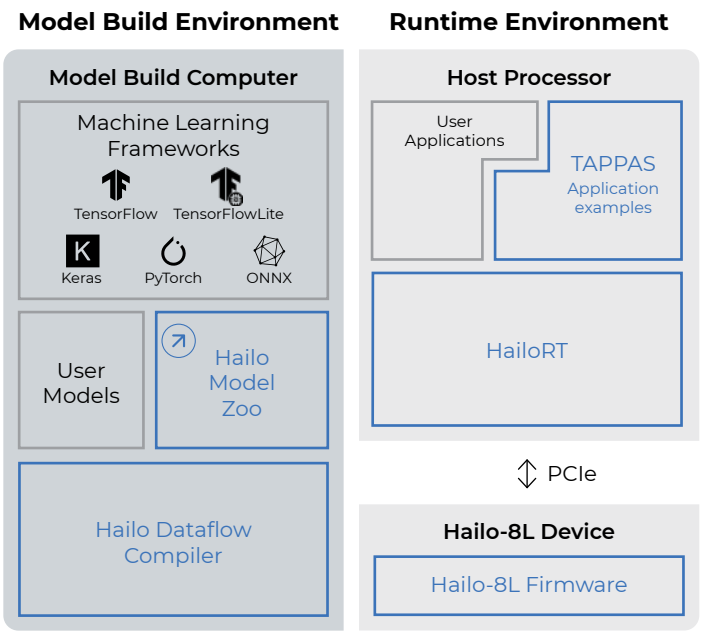
Unique, powerful and scalable structure-driven dataflow architecture that takes advantage of the core properties of neural networks. It enables edge devices to run deep learning applications at full scale more efficiently, effectively, and substantially than traditional solutions, while significantly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

Model Zoo
Over 100 of common & state-of-the-art pre-trained and retrainable models in TensorFlow & ONNX

Hailo Dataflow Compiler
A software toolset for optimization & translation of trained models to Hailo-8L format



TAPPAS
A set of full application examples, implementing pipeline elements and pre-trained AI tasks

HailoRT
Production-grade, precompiled, runtime software for the host processor

Neural Network Models & Application Support

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

Host Architectures: X86, ARM

OSs: Linux, Windows

Comprehensive dataflow compiler enables customer to port their neural network models easily & quickly

Hailo Ecosystem

Hailo collaborates with leading partners to seamlessly integrate their products with ours, creating easy-to-use, dependable, and high-quality 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

Co-processor connected to the various types of host processors via PCIe



Part Number
Hailo-8L Industrial: HNC1LBI11BH

www.hailo.ai

Starter Kit M.2 module with Hailo-8L for development & prototyping of edge AI & specifically, video analytics solutions

Click here for more information & product inquiry

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