HAILO

# 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.

## 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

www.hailo.ai

## Comprehensive Software Suite

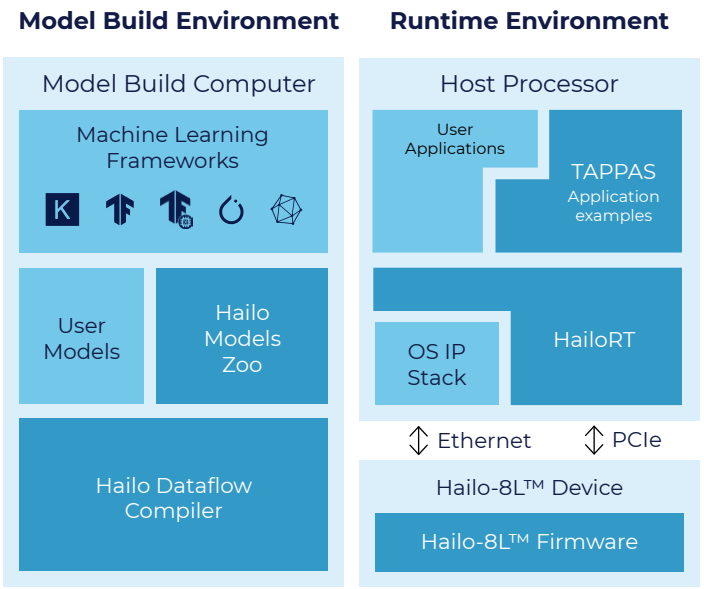
AI software suite which seamlessly integrates with existing deep learning development frameworks to allow smooth and easy integration in existing development ecosystems. The Hailo AI software suite is future proof, supporting all Hailo-8™ product lines, and includes:

**Model Zoo**

A variety 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

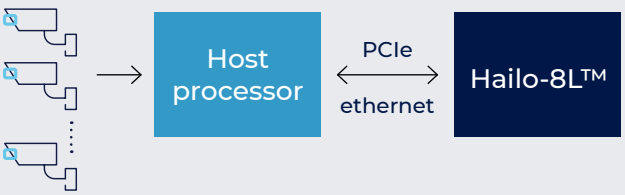
## Hailo Ecosystem

Hailo collaborates with 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

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




## Industries

Industrial Automation

Security

Retail

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