



# Hailo-8R™ Mini PCIe AI Acceleration Module

Deliver server class performance to edge devices



## Key Features & Benefits

Provides 13 Tera-Operations Per Second (TOPS)

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

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

Best-in-class power efficiency

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

Fast time-to-market using a standard form factor module

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

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

## Technical Specifications

**Form factor**  
PCI Express Mini Card Full-Mini F1

**Supported OS**  
Linux & Windows

**Supported host architecture**  
X86 or ARM based

**Dimensions**  
30×50.95 mm

**Supported AI Frameworks**  
TensorFlow, TensorFlow Lite, Keras, PyTorch & ONNX

**Certification**  
CE, FCC

**Interface**  
PCIe Gen 3.0, 1-lane

## Seamless Integration

Compatible with the PCI Express Mini (mPCIe) form factor, the module can be plugged into an existing edge device with an mPCIe Full-Mini socket to process deep learning inferencing in real time and with low power consumption.

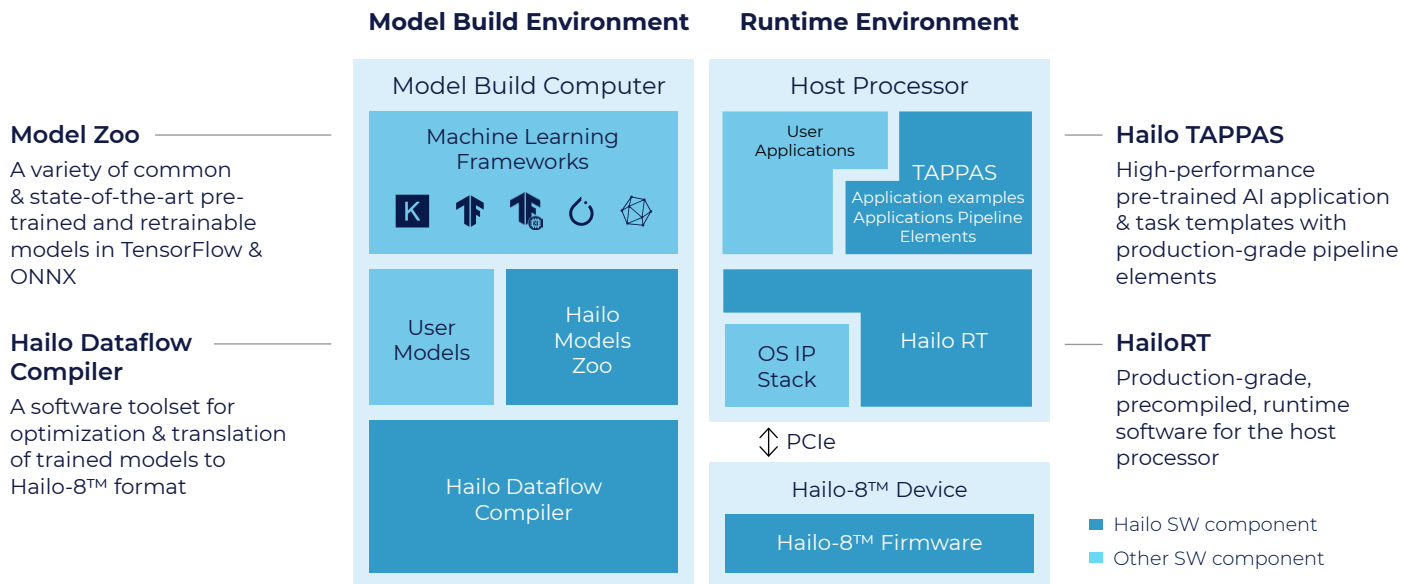
## Featuring the Hailo-8R™ AI Processor

Hailo-8R™ 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 includes:



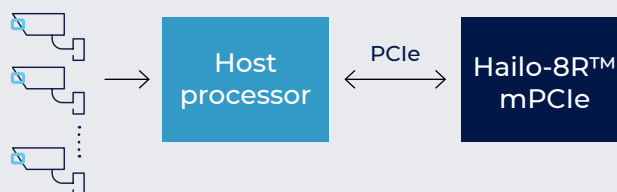
## Hailo Ecosystem

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 and more.

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

## System Usage

mPCIe module connected to various types of host processors via PCIe.



## Industries



Industrial Automation



Security



Retail

Click here for more information & product inquiry

