



# Hailo-8R Mini PCIe AI Acceleration Module

Deliver server class performance to edge devices



## Key Features & Benefits

Provides 13 Tera-Operations Per Second (TOPS)

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

## Technical Specifications

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

**Dimensions**  
30×50.95 mm

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

**Supported OS**  
Linux & Windows

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

**Supported host architecture**  
X86 or ARM based

**Certification**  
CE, FCC

## Seamless Integration

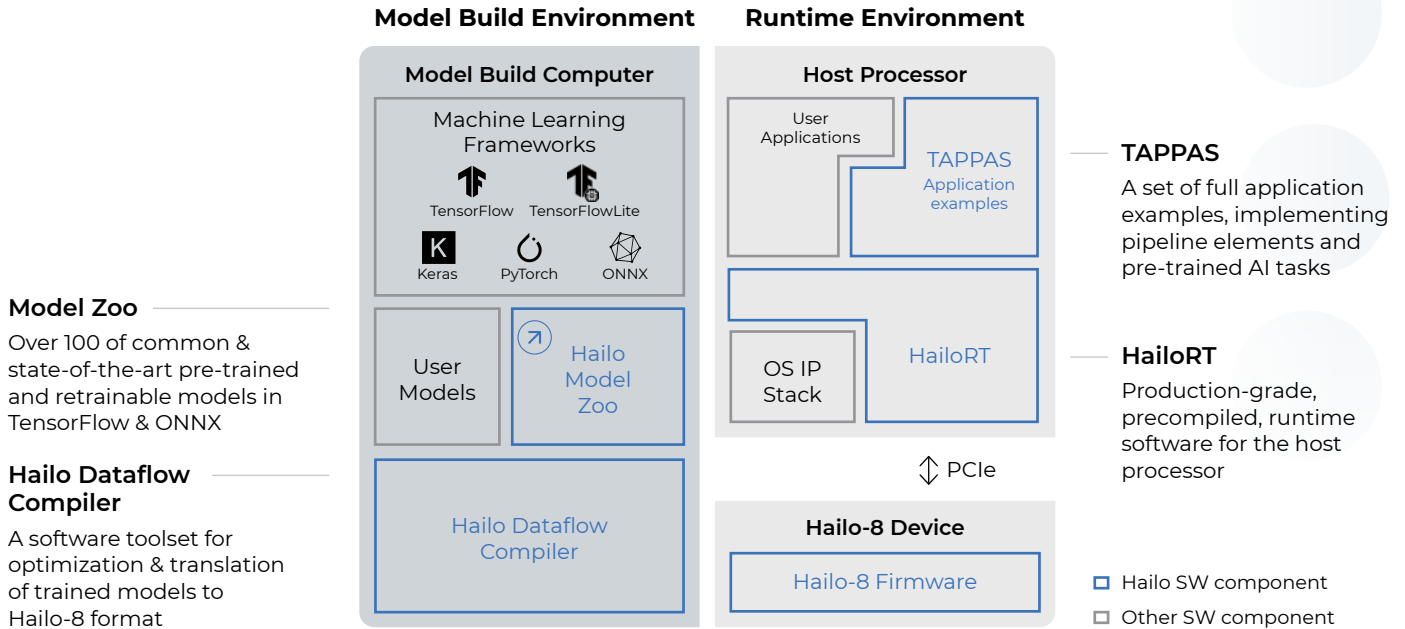
Compatible with the PCI Express Mini (mPCIe) form factor, the module can be plugged into an existing edge device with an mPCIe Full-Mini socket to process deep learning inferencing in real time and with low power consumption.

## 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 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

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



### Part Number

Hailo-8R mPCIe module Extended Temperature: HMP1RB1C2GAE

