



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

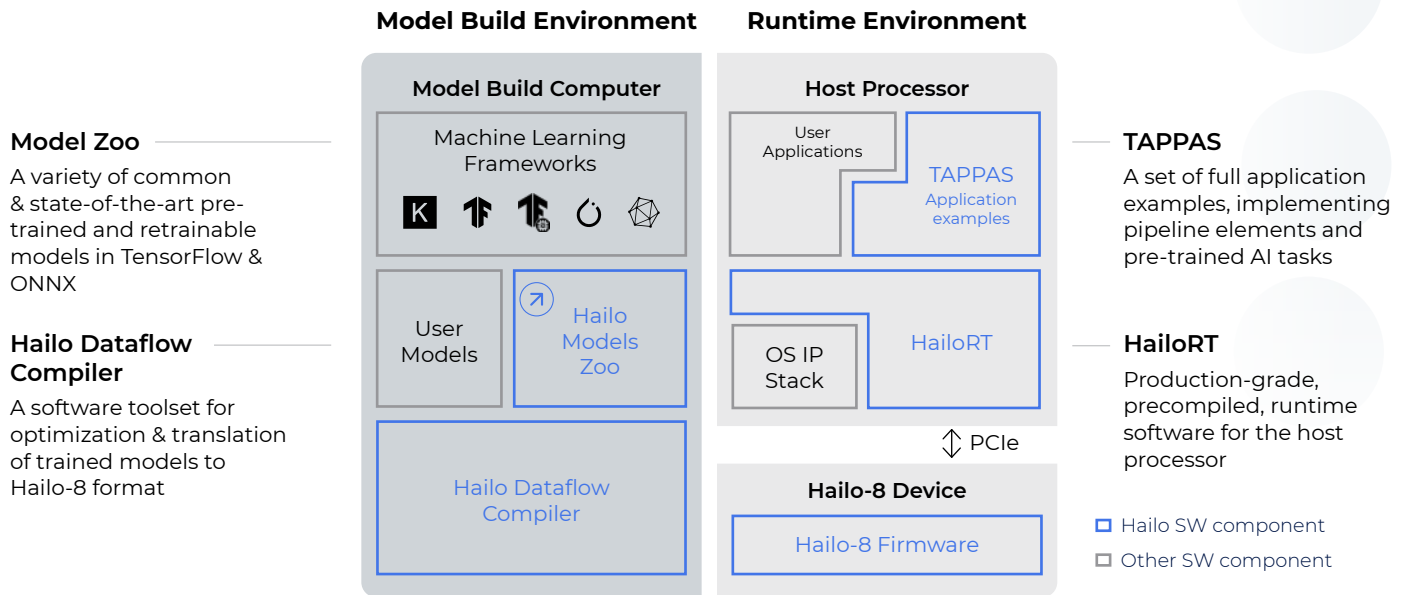
Compatible with the PCI Express Mini (mPCIe) form factor, the module can be plugged into an existing edge device with an mPCIe Full-Mini socket to process deep learning inferencing in real time and with low power consumption.

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 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.

