



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

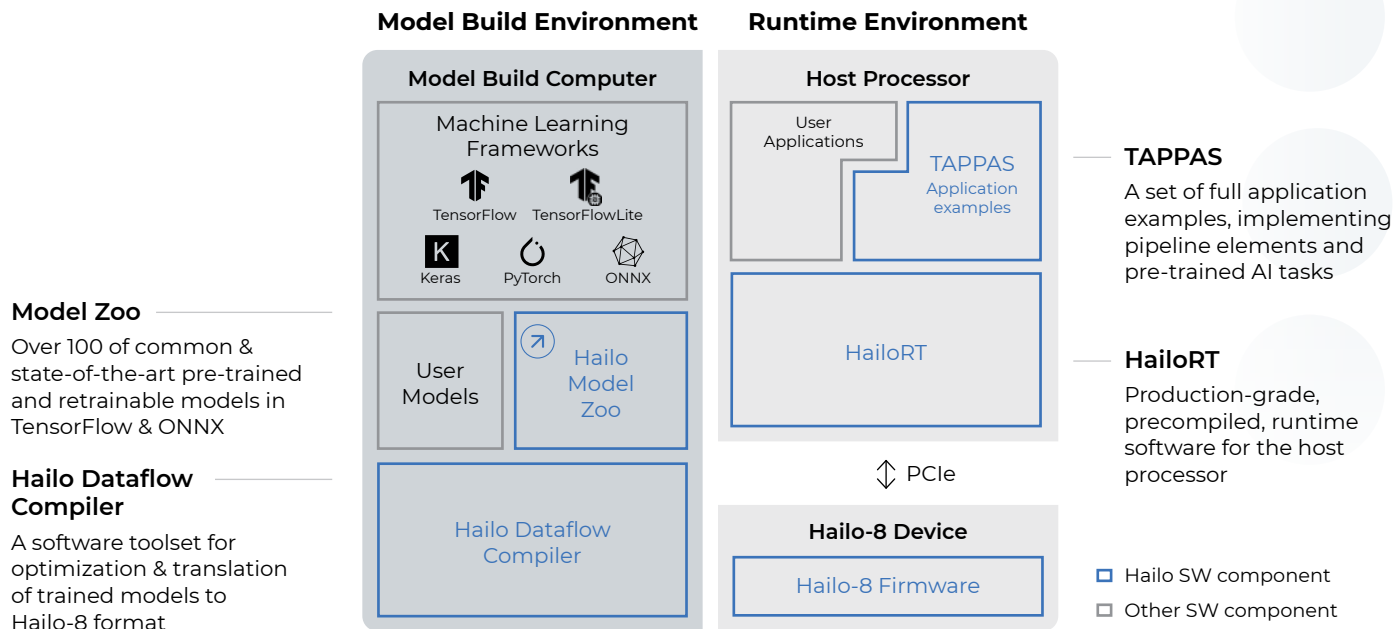
Compatible with the PCI Express Mini (mPCIe) form factor, the module can be plugged into an existing edge device with an mPCIe Full-Mini socket to process deep learning inferencing in real time and with low power consumption.

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

