

Hailo-8R™ Mini PCIe AI Acceleration Module

Deliver server class performance
to edge devices



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 execute deep learning inferencing in real time and with low power consumption.

Key Features and Benefits

- Provides 13 TOPS with best-in-class power efficiency
- Fast time-to-market using standard form factor module
- Enabling real-time, low latency, and high-efficiency AI inferencing on edge devices
- Highest cost-efficiency (TOPS/\$) compared with existing solutions
- Robust software suite supports state-of-the-art deep learning models and applications out-of-the-box
- Support extended temperature of -40°C to 85°C

Industries



Smart City



Smart Home



Smart Retail



Industry 4.0

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 Dataflow Compiler
- HailoRT runtime software
- Hailo TAPPAS, a high-performance pre-trained AI applications and tasks templates with production-grade pipeline elements
- Hailo Model Zoo, a variety of common and state-of-the-art pre-trained models and tasks in TensorFlow and ONNX

Technical Specifications

- Form factor: PCI Express Mini Card Full-Mini F1
- Dimensions: 30 x 50.95 mm
- Interface: PCIe Gen 3.0, 1-lane
- Supported OS Linux and Windows
- Supported AI Frameworks: TensorFlow, PyTorch, and ONNX
- Supported host architecture: x86 or ARM based
- Certification: CE, FCC

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

Ordering Information Purchase the Hailo-8R™ mPCI Module [here](#).