EAI-1200

Hailo-8™ M.2 AI Acceleration Module

NEW

Features

- 26 TOPS delivered by Hailo-8 VPU
- M.2 2242 with optional 2280 extensions
- -40~65°C operating temp. with optional heatsink
- Typical 2.5W low power consumption
- Rich AI Development Toolkits for Runtime SDK integration, Model build, Model Convert, and Pre-trained AI application
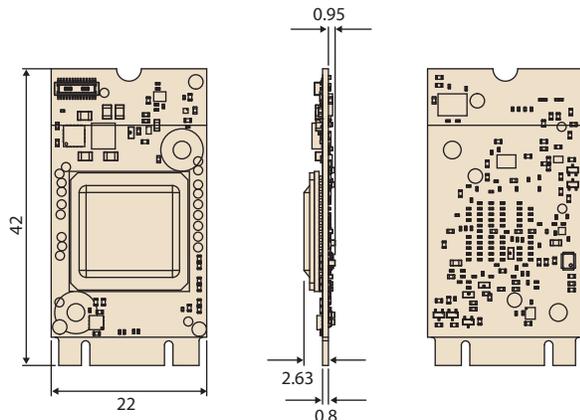
HAILO Edge AI SDK CE FCC

Specifications

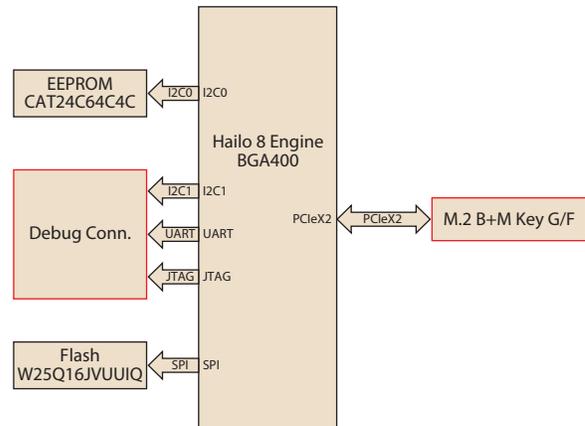|		EAI-1200-00A1
Processor	AI Accelerator	One Hailo-8™ VPU
	INT8 Peak Performance	26 TOPS
Signal Interface	PCI Express	PCIe Gen3 x2 (up to 16 Gbs) *Compatible to PCIe x1
Power	Power Consumption	Typical 2.5W, Max.5W among Hailo supported models
Operating	Temperature	-40 ~ 85°C (Throttling), with 0.7m/s air flow -40 ~ 65°C (Non-Throttling), with 0.7m/s air flow*
Environment	Humidity	40 °C @ 85% relative humidity (non-condensing)
Thermal Solution	Cooling	Heatsink (option)
Physical	Form Factor	M.2 2242 (Key B+M)
	Dimensions	22mm x 42mm x 2.63mm
	Power Range	3.3V±5%
Software Support	Windows	Windows 11 64bit
	Linux	Ubuntu 22.04, 20.04 LTS
	Framework	Support TensorFlow, TensorFlow Lite, ONNX, Keras, Prytorch by Dataflow complier converted
System Support	CPU platform	X86 or ARM based

*Note: According to operating temperature tests performed with EAI-1200 optional heatsink

Dimensions
Unit: mm

Block Diagram

ADVANTECH **Edge AI Acceleration Modules**
All product specifications are subject to change without notice.

Last updated: 9-Sep-2024

Edge AI SDK

To create a reliable & efficient development environment
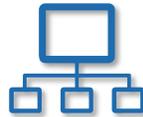
Effortlessly run AI inference

Inference Benchmark Tool
- No-code GUI utility
- Validated vision AI models
- Real-time workload monitoring

Remotely manage AI updates at scale

Inference Deployment Platform
- Visualized central MGMT platform
- OTA update for AI containers/apps
- RESTful APIs for MLOps integration

Efficiently start to implement AI

Inference Runtime SDK
- Compatible ubuntu & drivers
- Essential & compatible SDKs
- Single installer for drivers & SDKs
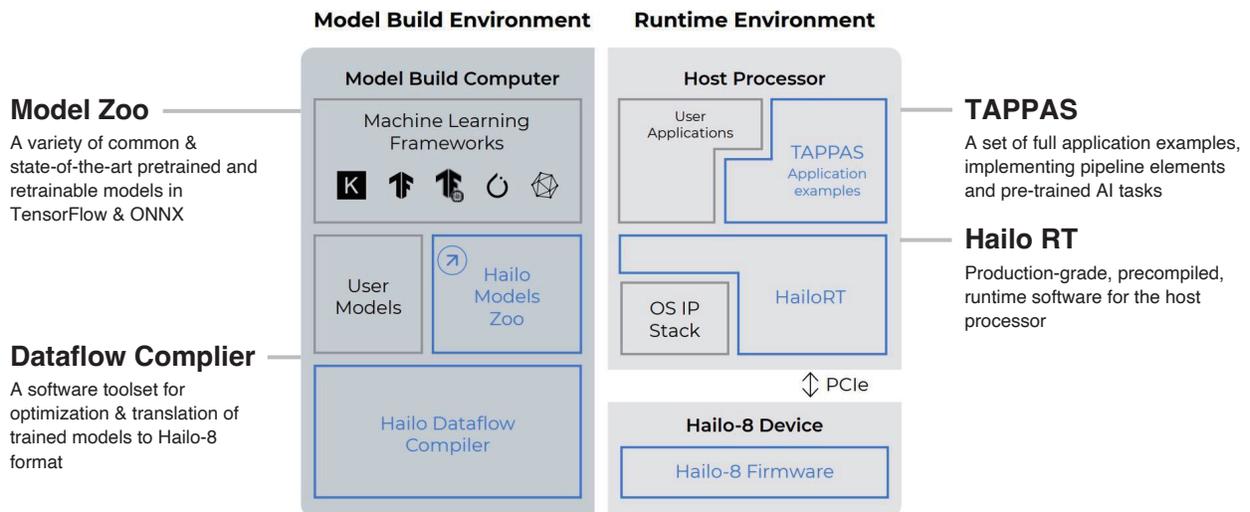
Effectively get instant services

Global Customer Support
- System reliability certification
- Inference computing enablement
- Edge-to-cloud scalability collaboration

*Find More Information about **Edge AI SDK***

Hailo AI Software Suite

To easily build model, convert model, implement pre-trained example

Model Build Environment

Model Build Computer
- Machine Learning Frameworks
- User Models
- Hailo Models Zoo
- Hailo Dataflow Compiler

Runtime Environment

Host Processor
- User Applications
- TAPPAS Application examples
- OS IP Stack
- HailoRT

⇕ PCIe

Hailo-8 Device
- Hailo-8 Firmware

Model Zoo
A variety of common & state-of-the-art pretrained and retrainable models in TensorFlow & ONNX

Dataflow Complier
A software toolset for optimization & translation of trained models to Hailo-8 format

TAPPAS
A set of full application examples, implementing pipeline elements and pre-trained AI tasks

Hailo RT
Production-grade, precompiled, runtime software for the host processor

*Find More Information about **Hailo AI Software Suite***

Ordering Information

Part Number	Description
EAI-1200-00A1	M.2 key B+M 1x Hailo-8 AI module

Optional items

Part Number	Description
1970005996N001	Heatsink for EAI-1200
1960103315N020	2280 extensions for EAI-1200