



## AIEH4000

PCle x16 Al Acceleration Card Hailo-8™ x4













### Introduction

SUNIX PCIe x16 Al Acceleration Card, AIEH4000, enables Hailo-8™ Al Processor into Edge computers, provides an easily deployable solution for AI developers to offload CPU loading on low-latency deep learning inference and cost-effective Edge AI computing with higher processing capabilities and lower power consumption. And this card can deliver up to 104 TOPS, enabling it to handle the most demanding computer vision applications. AIEH4000 also enables legacy computers such as NVRs, Edge AI boxes, Industrial PCs and robots to run video-intensive, mission-critical Edge Al applications such as video analytics, traffic management, access control.

### **Features**

- Compliant with PCI Express 3.0 x16
- Supports Single PCle Slot with low-profile Form-Factor
- Powered by Hailo-8™ Al inference processors
- Supports 104 TOPS AI performance
- Low power consumption
- Supports Software Development Kit
- Real-time, Low latency and High-performance Al inference acceleration to Edge Al

**Note:** AIEH4000 is incompatible with AMD Platform when using x16 Link Width.



# **Specifications**

Model	AIEH4000
Description	PCIe x16 Al Acceleration Card
Al Processors	Hailo-8™ Al Processor x4
Al Performance	104 TOPs (Tera-Operations Per Second)
Power Consumption	27W (TDP)
PCIe Interface	PCI Express Gen3 x16
Al Frameworks	TensorFLow, TensorFlow Lite, ONNX, Keras, Pytorch
Software Suites	<ul> <li>Dataflow Compiler (Model conversion and compilation)</li> <li>HailoRT (Runtime environment and driver)</li> <li>Model Zoo (Pre-trained models)</li> <li>TAPPAS (Deployment framework, examples and multi-network pipelines)</li> </ul>
OS Support	Linux (e.g. Ubuntu, Yocto) & Windows 10/11 64bit
Environment	<ul> <li>Operation temp. 0 to 50°C (32 to 122°F) commercial</li> <li>Operation humidity: 5 to 95% RH</li> <li>Storage temp20 to 85°C (-4 to 185°F)</li> </ul>
Certification	CE/FCC/VCCI/BSMI
Green Environment	RoHS
PCB Dimension	167.0 x68.5 mm    167.0 x68.5 mm   167.0   167
Bracket	Standard 121mm / Low profile 80mm(Optional)

# **Package**

- AIEH4000 / PCIe x16 AI Acceleration Card
- Quick installation guide



## **Applications**



### **Image Processing**

- Accelerate image-recognition
- Image segmentation
- Object detection



### **Video Meeting**

- Face tracking
- Gesture control



### **Factory Productivity**

Predictive maintenance -Enhance productivity -Improve agility -



### **Edge Inference**

- Smart city -Smart retail -
- Smart retail -Smart buildings -

