



## AIEH2000

PCIe x8 AI Acceleration Card  
Hailo-8™ x2



## Introduction

SUNIX PCIe x8 AI Acceleration Card, AIEH2000, enables Hailo-8™ AI 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 52 TOPS, enabling it to handle the most demanding computer vision applications.

AIEH2000 also enables legacy computers such as NVRs, Edge AI boxes, Industrial PCs and robots to run video-intensive, mission-critical Edge AI applications such as video analytics, traffic management, access control.

## Features

- Compliant with PCI Express 3.0 x8
- Supports Single PCIe Slot with low-profile Form-Factor
- Powered by Hailo-8™ AI inference processors
- Supports 52 TOPS AI performance
- Low power consumption
- Supports Software Development Kit
- Real-time, Low latency and High-performance AI inference acceleration to Edge AI

# Specifications

<b>Model</b>	AIEH2000
<b>Description</b>	PCIe x8 AI Acceleration Card
<b>AI Processors</b>	Hailo-8™ AI Processor x2
<b>AI Performance</b>	52 TOPs (Tera-Operations Per Second)
<b>Power Consumption</b>	16W (TDP)
<b>PCIe Interface</b>	PCI Express Gen3 x8
<b>AI Frameworks</b>	TensorFlow, TensorFlow Lite, ONNX, Keras, Pytorch
<b>Software Suites</b>	<ul style="list-style-type: none"> <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>
<b>OS Support</b>	Linux (e.g. Ubuntu, Yocto) & Windows 10/11 64bit
<b>Environment</b>	<ul style="list-style-type: none"> <li>■ Operation temp. 0 to 50°C (32 to 122°F) commercial</li> <li>■ Operation humidity: 5 to 95% RH</li> <li>■ Storage temp. -20 to 85°C (-4 to 185°F)</li> </ul>
<b>Certification</b>	CE/FCC/VCCI/BSMI
<b>Green Environment</b>	RoHS
<b>PCB Dimension</b>	<p>130.0 x 68.5 mm</p> <p>The diagrams show the PCB dimensions in millimeters. The side view shows a height of 17.00mm and a width of 130.00mm. The front view shows a height of 17.00mm and a width of 130.00mm. The top view shows a height of 68.50mm and a width of 130.00mm. The top view also shows the locations of the Hailo-8 AI processors and the PCIe interface.</p>
<b>Bracket</b>	Standard 121mm / Low profile 80mm(Optional)

# Package

- AIEH2000 / PCIe x8 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 buildings -



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