

MiAi-H8

Real-time & AI Inference Acceleration Xpansion PCIe Card

Features

- Support up to 8 x Hailo-8™ AI Processor
- Support up to 208 TOPs
- Support Hailo-8™ Software Development Kit
- Passive and active cooling alternatives
- Industrial grade design with all solid capacitors and wide temperature support



AI Performance
(208 TOPs)



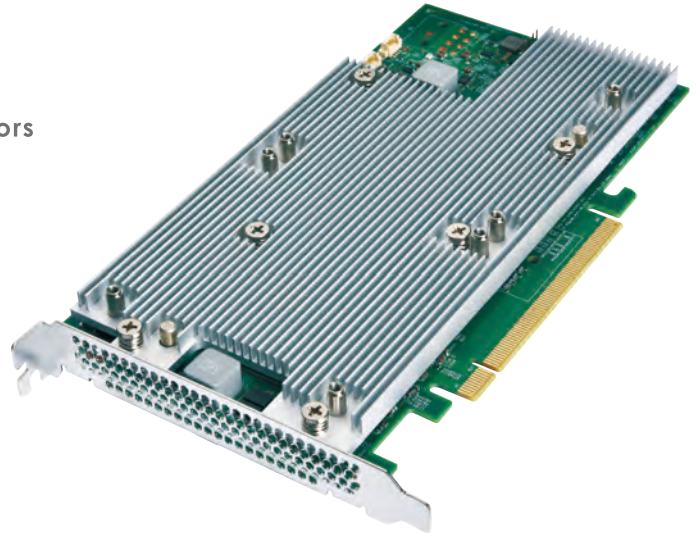
8 x Hailo-8™
AI Processor



Energy
Saving



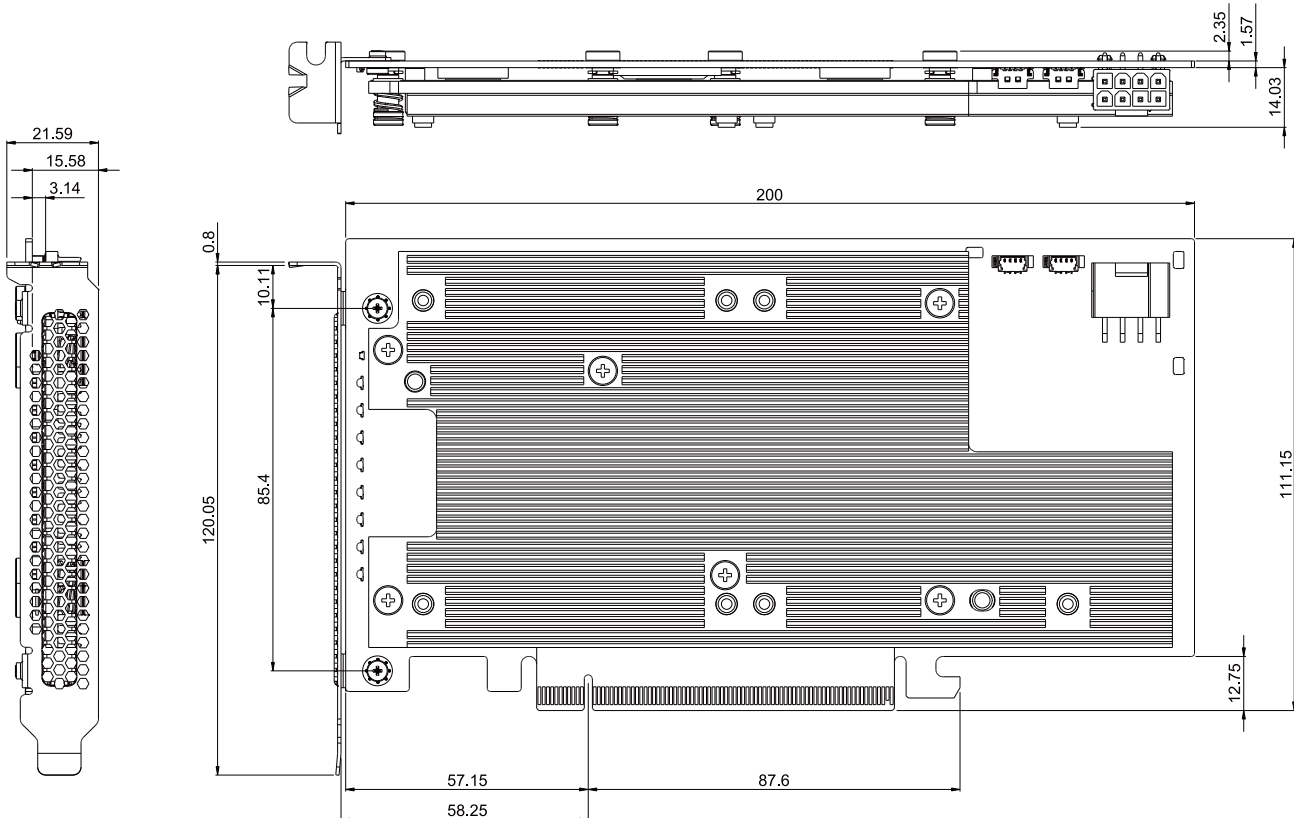
All Solid
Capacitor



Dimension

Passive Cooling: 111mm (Width) x 200mm (Length) x 14mm (Height)

Active Cooling: 111mm (Width) x 200mm (Length) x 30.5mm (Height)



MiAi-H8 AI Acceleration card

Specification

General	
Form Factor	Real-time AI Inference Acceleration
Bus Type	PCI Express Gen3 x16
Certification	CE, FCC
Dimension	111 x 200 x 14 mm (Passive Cooling); 111 x 200 x 30.5 mm (Active Cooling)
AI Processor	
AI Processor	4~8 x Hailo-8™ AI Processor
AI Performance	
4 x Hailo-8™	104 TOPs, 5,300 FPS of ResNet, and 900 FPS of YOLO v5m
8 x Hailo-8™	208 TOPs, 10,600 FPS of ResNet, and 1,800 FPS of YOLO v5m
Power Requirement	
Power Consumption	4 x Hailo-8™: Max. 42W; Typ. 20W 8 x Hailo-8™: Max. 74W; Typ. 30W
Accessory	
Accessory	Pre-installed Full height PCIe bracket with venting holes

Software

ML Frameworks Support	
ML Frameworks Support	ONNX; TensorFlow; pyTorch
Runtime Support	
Runtime Support	GStreamer; ONNX Runtime; Native C/C++
Hailo Software Suites Support	
Hailo Software Suites Support	Dataflow Compiler (Model conversion and compilation) HailoRT (Runtime environment and driver) Model Zoo (Pre-trained models) TAPPAS (Deployment framework, examples and multi-network pipelines)
OS Support	
OS Support	Linux Ubuntu 22.04 Microsoft® Windows® 10 Pro/IoT 2021 LTSC, Windows® 11 Pro (only support PCIe driver and HailoRT tool in Windows)

Environmental

Operating Temperature	
4 x Hailo-8™	-40 ~ 60°C (Passive cooling SKU)
8 x Hailo-8™	-40 ~ 50°C (Passive cooling SKU)
4 x Hailo-8™	-40 ~ 85°C (Active cooling SKU)
8 x Hailo-8™	-40 ~ 75°C (Active cooling SKU)
Storage Temperature	
Storage Temperature	-40 ~ 85°C
Operating Humidity	
Operating Humidity	10% ~ 95% R/H (Non-condensing)

Ordering Information

Model Number	AI Processor	Thermal Solution	Operating Temperature
MiAi-H8-C4-AF	4 x Hailo-8™ AI Core	Active Fan with Heatsink	-40 ~ 85°C
MiAi-H8-C8-AF	8 x Hailo-8™ AI Core	Active Fan with Heatsink	-40 ~ 75°C