

Hailo-8 Century High Performance PCIe Cards

Delivering data center class performance to edge devices, with up to 208 TOPS

The high-performance Century PCIe cards enable deep neural network inferencing in real-time with low power consumption for a broad range of market segments and applications on any platform with a 8/16-lane PCIe slot.

Key Features & Benefits

Delivering **52-208 TOPS** (Tera Operations Per Second)

Best-in-class power efficiency, at **400 FPS/W** in ResNet50 Enabling real-time, low latency, and high-efficiency concurrent processing of complex pipelines with multi-streams and multi-models

Supporting industrial temperature range of **-40°C to 85°C**

Highest cost-efficiency, starting at \$249

Robust software suite supports state-of-the-art deep learning models & applications out-of-the-box

Technical Specifications*





	Small form factor				Wide host compatibility				
Model number	0802S	0802	0803	0804	0804S	0805S	0806S	0807S	0808S
# of TOPS	52	52	78	104	104	130	156	182	208
Form factor	single slot, HHHL				single slot, HHFL				
Interface	PCIe x8 slot	PCIe x16 slot with bifurcation			PCIe x16 slot				
Dimensions	68.9 x 130 mm	68.9 × 167.65 mm			68.9 × 254 mm				
Max thermal design power (TDP)	15W-45W				45-75W				
Supported OS	Linux, Windows 10/11								
Supported AI frameworks	Tensorflow, Tensorflow Lite, Keras, Pytorch, & ONNX								
Analytics streams (Basic; Advanced)	32; 16	32; 16	48; 24	64; 32	64; 32	80; 40	96; 48	112; 56	128; 64
Availability	Available				Available by Hailo's partners				

^{*} Products are shipped with a matching heatsink attached

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Comprehensive Software Suite

Seamlessly integrates with existing deep learning development frameworks to allow smooth and easy incorporation into existing development ecosystems.

Model Build Environment

Runtime Environment Host Processor

Model Build Computer Machine Learning Frameworks TensorFlowLite TensorFlow K $\dot{\mathbf{C}}$ PyTorch ONNX 7 Hailo User Model Models Zoo Hailo Dataflow Compiler

Applications

TAPPAS

Application examples

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

HailoRT

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

Hailo-8 Century Hailo-8 Firmware

♠ PCIe

HailoRT

Hailo SW componentOther SW component

Hailo Century

and retrainable models in TensorFlow & ONNX

Over 100 of common &

state-of-the-art pre-trained

Model Zoo

Hailo Dataflow Compiler

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

Performance Cost Efficiency **Power Efficiency** ResNet-50 FPS FPS/\$ FPS/W 140% 140% 120% 120% 100% 100% 8.000 Small form 80% 80% factor 6.000 60% 60% 4,000 40% 40% 2.000 0 0 Hailo Century Hailo Century Hailo Century Other Other 160% 160% 140% 140% 12.000 120% 120% 100% 100% Wide host 80% 80% compatibility 6,000 60% 4.000 40% 40% 2,000 20% 20%

Hailo Ecosystem

Hailo collaborates with leading partners to seamlessly integrate their products with ours, creating easy-to-use, dependable, and highquality solutions that adhere to the industry's most rigorous standards.

Other

Our extensive network of trusted partners covers various regions and market segments, delivering innovative solutions to our customers.

Hailo Century

To view our extensive network click here

Other

Part Numbers

0802S HCN0802I1HS

Starter Kit: HCN0802I1HSXA

Hailo Century

0802 HCN0802I1HL

Starter Kit: HCN0802I1HLXA

0803 HCN0803I1HL

Starter Kit: HCN0803I1HLXA

0804 HCN0804I1HL

Starter Kit: HCN0804I1HLXA

www.hailo.ai

Click here for more information & product inquiry



Other