

# DX-H1

## A Game Changer in AI Servers

An AI Inference Card for **Green Data Center**



**10x**  
Power  
Efficient

**10x**  
Cost  
Efficient



### Unprecedented AI Performance

The highest performance through energy-efficient operations for sustainable AI



### Ultra Low TCO

A formidable alternative to GPGPU, presenting x10 better cost-efficiency (inference/\$)



### Ground-breaking Quantization

AI accuracy beyond theoretical limits, reaching levels akin to GPUs



### Easy-to-use SDK

Drop & Play™ deployment of the state-of-the-art AI models with Software Development Kit, DXNN<sup>®</sup>

# DX-H1, Triumphant Winners in Dual Domains at CES Innovation Awards 2024



COMPUTER HARDWARE & COMPONENTS

**DX-H1**  
A DATA CENTER AI INFERENCE CARD



EMBEDDED TECHNOLOGY

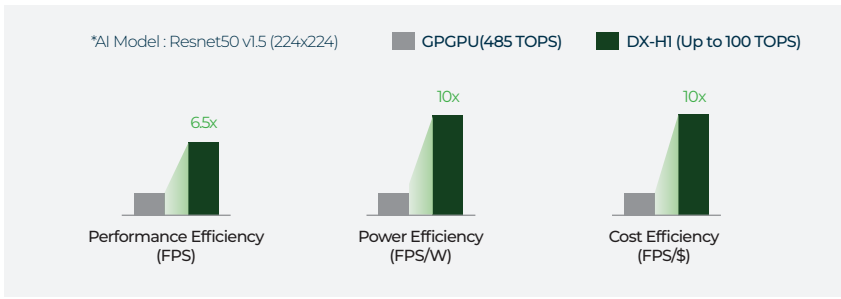
**DX-H1, DX-M1, DX-V1, DX-V3**  
ALL-IN-4-AI TOTAL SOLUTION



## Hardware Partnerships



## Alternative to traditional GPU-based AI processing



## Target Application

- On-premise AI Server
- AI PC (Workstation)
- Smart Factory
- NVR (Network Video Recorders)
- Smart Building

## Real-time Processing on Over 100 Channels per card

\*AI Model: Yolov5s (512 x 512), 2,000 FPS

\*Processing Over 10,000 Cameras per Server Rack



## Support State-of-the-Art Algorithms

- ResNet
- MobileNet v1, v2, v3
- SSD
- EfficientNet
- EfficientDet
- YOLOv5, YOLOv7, YOLOv8
- DeepLabv3, PIDNet
- The Latest YOLO Models, VLM(CLIP etc.)

## Specifications

Model	Type	Form Factor	Interface	TOPS	Supported AI Frameworks	Max Power	Dimensions	Supported OS
H1	AI Accelerator	PCIe Card	PCIe Gen.3 x16 (4 x 4 x 4 x 4 Bifurcation)	100	PyTorch, ONNX, TensorFlow	20W	167mm x 66.4mm	Linux Window

