

# A Purpose-Built Gen AI Accelerator

Neuchips Raptor Gen AI Accelerator leads the industry in performance and efficiency. Purpose-built, the Raptor series improves inferencing accuracy, optimizes bandwidth, and increases resource utilization - all while delivering a significantly lower TCO than existing solutions.



## Optimized for Max. Returns

Maximize your returns with a product that combines low power consumption and high accuracy, offering an attractive ROI. Our ASIC technology is incredibly energy-efficient, slashing operational costs and reducing your carbon footprint.



## Precision Meets Accuracy

Achieve unparalleled accuracy with minimal perplexity while enjoying rapid inferencing speeds, while keeping power consumption in check, ensuring your business reaps high profits.



## Zero Resource Wastage

With ASICs, every bit of processing power is dedicated to your tasks, making your operations more efficient. ASICs are purpose-built for specific tasks, ensuring optimal performance tailored to your needs.



neuchips

Purpose-built AI Solutions for the Cloud

# Neuchips Evo Series Gen 5 PCIe Card Design for AI Inferencing

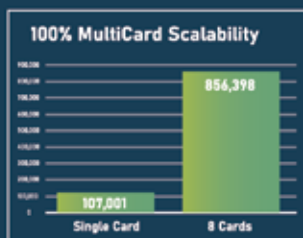
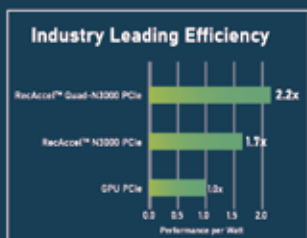
## Neuchips Evo Feature Highlights

- Easy-to-use Software Stack
  - Frictionless transition from existing development kit
- Patented Flexible Float Point 8
  - Improves inferencing accuracy
  - Quantizes data for memory capacity and bandwidth optimization in LLM workload
- 100% Linear Scaling to Multi-cards
- 4x 64bit LPDDR5 (6.4GHz) with ECC
- Up to 128GB on Card LPDDR5
- PCIe Gen5

## Product Specification

BFLOAT16	32 TFLOPS
INT8	206 TOPS
Memory	32GB LPDDR5
Memory Bandwidth	200 GB/s
Thermal Design Power (TDP)	55W
Form Factor	Full-height, Full-length (FHFL) 10.5" Dual-slot (266mm/10.5 inch)
PCI Express Interface	PCI Express 5.0 x 16 Lane and Polarity Reversal Supported
Interconnect	PCIe Gen5: 64 GB/s
Server Options	Partner and NEUCHIPS-certified Systems with 1-8 Accelerator

## Industry Leading Performance



## Environmental Specification

Ambient Operating Temperature	0°C~50°C
Storage Temperature	-40°C~75°C
Operating Humidity	5%-85% Relative Humidity
Storage Humidity	5%-95% Relative Humidity