AI TOP ATOM

Sales Kits





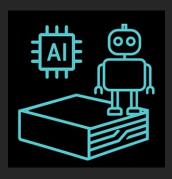
Why AI TOP ATOM?











Al is more Intelligent, but more complex

Local Developers

GIGABYTE AI TOP ATOM

- Reasoning AI & AI Agents with multiple models
- More compute needed during inference

- Laptop / PC memory or software stack inadequate
- Forced to rely on cloud or datacenter
- · Limited on-site development

- NVIDIA® Grace Blackwell GB10
 Superchip 1 petaflop + 128GB Memory
- Full NVIDIA AI software stack
- Develop + run at the desk



Design Concept

- Compact and energy-efficient form factor
- Flow-inspired design with wave-like grille that reflects continuous data movement
- Matte black finish and compact form for a clean, professional look
- Optimized thermal airflow aligned with the exterior's fluid form
- Expresses GIGABYTE' s vision: performance shaped by intelligent design





What makes us different: AI TOP Utility



To further enhance the user experience, Al TOP ATOM also provides access to GIGABYTE' s exclusive Al TOP Utility, a downloadable software suite that helps users quickly perform model training, inference, and deployment locally. The tool integrates optimized workflows, ready-to-use templates, and model conversion features—making the development process more intuitive and efficient.

AI TOP UTILITY

Monitor Hardware status + Training quality with user-friendly GUI





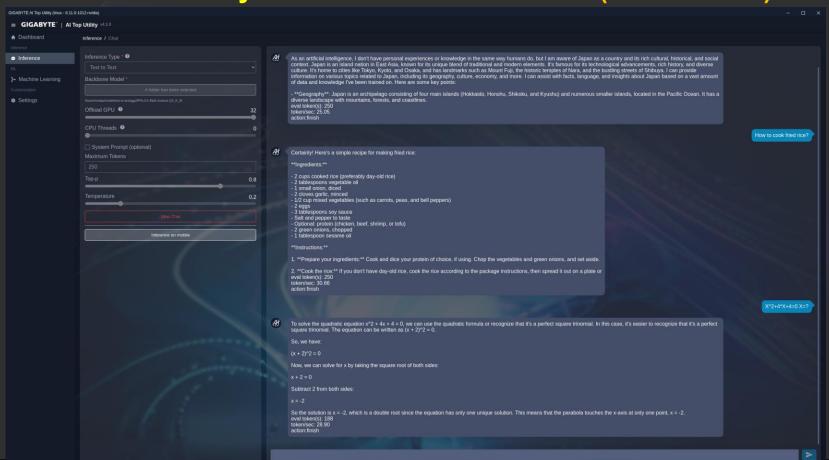
Machine Learning Machine Learning:

- 1. image classification
- 2. object detection
- 3. image segmentation
- 4. OCR (Optical Character Recognition)

Retrieval-augmented generation for text/audio/image/video

datasets

AI TOP Utility Atom Version : Inference (Text-to-Text)



Al TOP Utility Atom Version: Inference (Text-to-Image)



NVFP4 Advantage: Text to Image

TensorRT BF16



TensorRT FP4



An old steam locomotive chugging through a mountainous landscape, billowing clouds of smoke, with a classic hand-painted style

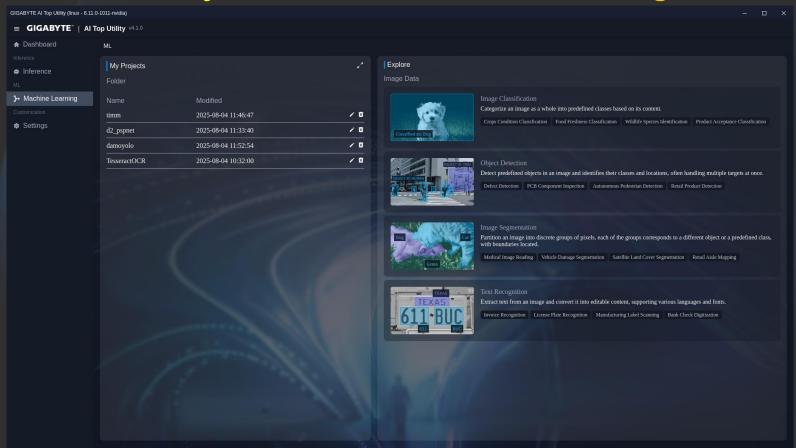
Precision	Default mode
FP16	39.3 GB
BF16	35.7 GB
FP8	24.6 GB
FP4	21.67 GB

Model	5090 fp16*	5090 fp8	5090 fp4	4090 fp8*
FLUX.1-dev (w/ 30 diffusion steps)	10930.96ms	6680.93ms	3852.75ms	10620.37ms
FLUX.1-schnell(w/ 4 diffusion steps)	4427.43ms	912.53ms	590.56ms	3385.43ms



Table 2. E2E inference pipeline time on RTX GPUs (* needs to run with low-VRAM mode to fit into GPU)

AI TOP Utility Atom Version: Machine Learning



Connect. Expand. Accelerate



Stack 2 AI TOP ATOMs via NVIDIA® ConnextX®-7 SmartNIC for Larger AI models & Performance

200B parameter to 405B parameter



Target Audience









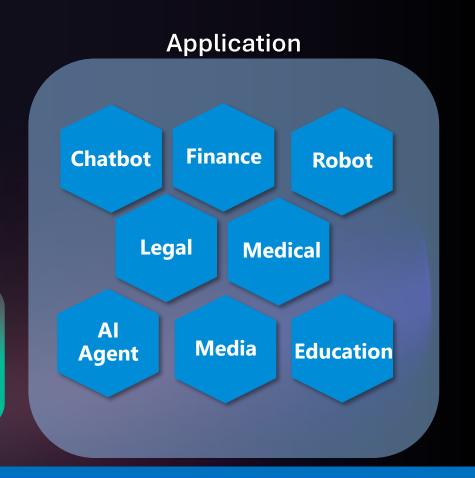


	Enterprise Developers	Researchers	Inception / Startups	Enthusiasts	Students
Description	Professional AI Software developers in companies	Al Researchers, grad-students, professors	Professionals who develop data science solutions as their primary role	Hobbyist developers passionate about Al; often have full-time jobs but develop in their free time	Individuals in secondary or higher education studying Al/data science
Pain Points	IT procurement process / policies	University contracts	Price / Prefer NET 30	Availability	Price / Availability
Budget	Business case dependent	Business case dependent / low price purchases avoid bid/ budget process	Business case dependent. Price sensitive in early stages.	\$3-5K	<\$3000
Buying preference	Partners & Online	Partners & Online	Partners & Online	Online	Online & Retail

TARGET USE CASES



AI is not a one-size-fits-all solution
It must be fine-tuned and optimized for specific business needs.



Al needs to be optimized for specific needs.

Specifications

Architecture NVIDIA® Grace Blackwell

GPU NVIDIA® Blackwell Architecture

CPU 20 core Arm, 10 Cortex-X925 + 10 Cortex-A725 Arm

CUDA Cores NVIDIA® Blackwell Generation

Tensor Cores 5th Generation
RT Cores 4th Generation

Tensor Performance¹ 1 petaFLOP AI performance

System Memory 128 GB LPDDR5x, unified system memory

Memory Interface 256-bit Memory Bandwidth 273 GB/s

Storage 4 TB Gen5/4TB Gen4/1TB Gen4 NVME.M2 with self-encryption

USB 4x USB TypeC

Ethernet 1x RJ-45 connector, 10 GbE

NIC ConnectX-7 Smart NIC

Wi-Fi WiFi 7 Bluetooth BT 5.3

Audio-output HDMI multichannel audio output

Power Consumption 240W

Display Connectors 1x HDMI 2.1a

NVENC | NVDEC 1x | 1x

OS NVIDIA DGX™ OS

System Dimensions 150 mm L x 150 mm W x 50.5 mm H

System Weight 1.6 kg

Suggest MSRP USD \$3999 - \$4599

From Compact to Extreme Al Power







AI TOP ATOM

1 petaFLOP

100B-200B

Finetune Inference

Compact AI platform for entry-level developers and edge computing.

AI TOP 100

3000 TOPS

110B-200B

Finetune Inference

Mainstream AI system for developers & creators

AI TOP 500

3000 TOPS

405B-685B

Finetune Inference

Extreme-performance AI server for heavy-duty workloads

Connectivity

