

ASUS Ascent GX10

Compact, Powerful, and Scalable



The ASUS Ascent GX10, accelerated by the NVIDIA GB10 Grace Blackwell Superchip and the NVIDIA AI software stack, provides a full-stack solution for AI development and deployment. Its compact design facilitates seamless integration and deployment, enabling powerful AI performance for innovators who demand excellence. With advanced AI tools and NVIDIA® ConnectX®-7, this small-scale server enhances your AI capabilities while empowering your unique solutions.

Key Selling Points

- **Extreme Agentic AI Performance:** Powered by the NVIDIA® GB10 Grace Blackwell Superchip, delivering 1 PFLOP with 64GB for up to 100B models or 128GB for 200B inference, for high-demand personal agents.
- **Developer-Optimized Agentic AI Ecosystem :** A next-generation agent computer platform tailored for researchers that streamlines workflows with NVIDIA-accelerated tools and an optimized NemoClaw setup for rapid agent development.
- **Scalable & Interconnected Architecture:** Features ConnectX-7 networking and Sync Cluster Assistant — two 64GB units pool to 128GB (2 PFLOPS), and up to four 128GB units scale to 512GB (4 PFLOPS) for frontier agents.
- **Secure and Governed Autonomy:** Merges enterprise readiness with OpenShell secured containers and NemoClaw sandboxes to provide private, on-device inference and governed access control for long-running autonomous agents.
- **Advanced Thermal Design for Any Environment:** High-density compute power maintained through engineered cooling, allowing this 1 PFLOP powerhouse to operate reliably in labs, offices, and edge environments despite its minimal footprint.

Audience:

- AI Researcher
- AI Developer
- Data Scientist
- Machine Learning
- AI Startup Founder

Target Usage:

- AI Model Prototyping and Fine-Tuning
- Inference Workload Processing
- Data Science and Edge Application Development

Target Market:

- Healthcare
- Industrial AI & Automation
- Fin-Tech Services
- AI Retail & E-commerce

ASUS Ascent GX10

Specifications



Front



Back

Model	ASUS Ascent GX10	
Architecture	NVIDIA Grace Blackwell	
GPU	NVIDIA Blackwell Architecture	
CPU	20 core Arm, 10 Cortex-X925 + 10 Cortex-A725 Arm	
NVIDIA® CUDA® Cores	NVIDIA Blackwell Generation	
Tensor Cores	5 th Generation	
RT Cores	4 th Generation	
Tensor Performance ¹	1 PFLOP	
System Memory	128 GB LPDDR5x, coherent unified system memory	64GB LPDDR5x, coherent unified system memory
Memory Interface	256-bit	
Memory Bandwidth	Up to 273 GB/s	
Storage	1TB M.2 NVMe™ PCIe® 4.0 SSD or 2TB M.2 NVMe™ PCIe® 4.0 SSD or 4TB M.2 NVMe™ PCIe® 4.0 SSD or	
	1TB M.2 NVMe™ PCIe® 4.0 SSD	
	*Up to 4TB M.2 PCIe SSD, single slot. *The ASUS Ascent GX10 does not allow users to change SSD. Opening the chassis may void the warranty.	
Max Local Model Size	Up to ~200B parameters	Up to ~100B parameters
USB	3 x USB 3.2 Gen 2x2 Type-C, 20Gbps, alternate mode (DisplayPort) 1 x USB 3.2 Gen 2x2 Type-C, with PD in (EPR PD3.1 SPEC)	
LAN	1 x RJ-45 connector 10 GbE	
NIC	1 x NVIDIA® ConnectX-7 NIC @ 200 Gbps	
Wi-Fi	Wi-Fi 7 2x2	
Bluetooth	Bluetooth® 5.4 w/LE	
Power Supply	240W	
Display Connectors	1 x HDMI 2.1a	
NVENC NVDEC	1x 1x	
OS	NVIDIA DGX™ OS	
Software	NVIDIA AI Software Stack	
Kensington Lock	Yes	
Dimension (W x D x H)	150 x 150 x 51 mm (5.91 x 5.91 x 2.01 inch)	
Weight	1.48 kg (3.26 lb.)	
Certification	BSMI/CB/CE/FCC/UL/CCC/C-Tick/WiFi/RF/VCCI	

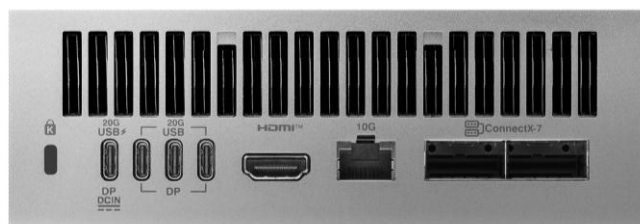
Note: NVIDIA AI Enterprise is available separately. Please contact your ASUS representative for licensing information.

¹Theoretical FP4 TOPS using the sparsity feature.

Specifications, content, and product availability are all subject to change without notice and may differ from country to country. Actual performance may vary depending on the application, usage, environment, and other factors. Full specifications are available at <http://www.asus.com>

ASUS Ascent GX10

I/O Ports



— 1 x NVIDIA®
ConnectX®-7 NIC

Kensington Lock Slot

1 x USB 3.2 Gen 2x2 Type-C, with PD
in(180W EPR PD3.1 SPEC)

3 x USB 3.2 Gen 2x2 Type-C, 20Gbps,
alternate mode (DisplayPort 2.1)

1x HDMI 2.1a
port

1 x RJ-45 connector 10 GbE

What's in the box



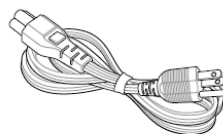
ASUS Ascent GX10



Power supply



Inserts



Power Cord*

Accessory

Sold Separately. Please contact your local salesperson
about ordering channel.



QSFP cable
0.4m

NOTE:

- The most up-to-date and accurate product specifications are available on www.asus.com for download.
- Product and accessory images are for illustrative purposes only. The actual appearance and specifications may vary depending on the model.
- *The bundled power adapter may vary depending on the model and the country (or region) of sale.
- Some bundled accessories may vary depending on the model. For details on these accessories, refer to their respective user manuals.
- If the device or its components fail or malfunction during normal and proper use within the warranty period, bring the warranty card to the ASUS Service Center for replacement of the defective components.

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