ASUS GX10-GG0010BN

ASUS Ascent GX10 Personal AI Supercomputer

MODEL: GX10-GG0010BN

Manufacturer: ASUS

Introduction

The ASUS Ascent GX10 is an ultra-small AI supercomputer designed for developers, AI researchers, and data scientists. It integrates the NVIDIA GB10 Grace Blackwell Superchip to deliver petaflop-scale AI performance directly on your desktop, facilitating local AI development and deployment.

This manual provides essential information for setting up, operating, and maintaining your ASUS Ascent GX10. Please read these instructions carefully before using the device.

What's in the Box

Verify that all items are present in the package:

- 1 x ASUS Ascent GX10-GG0010BN Unit
- 1 x Power Adapter
- 1 x Power Cord

Setup

Follow these steps to set up your ASUS Ascent GX10:

1. **Placement:** Place the ASUS Ascent GX10 on a stable, flat surface with adequate ventilation. Ensure that the air vents are not obstructed.
2. **Connect Peripherals:** Connect your monitor to the HDMI 2.1 port. Connect a keyboard and mouse to the available USB ports.
3. **Network Connection:** For wired network access, connect an Ethernet cable to the 10G LAN port. For wireless connectivity, the device supports Wi-Fi 7 and Bluetooth 5.4.
4. **Power Connection:** Connect the power adapter to the DC-in port on the rear of the unit, then plug the power cord into an electrical outlet.
5. **Initial Boot:** Press the power button on the front of the unit to turn it on. The system will boot into the NVIDIA DGX

OS (Ubuntu Linux).

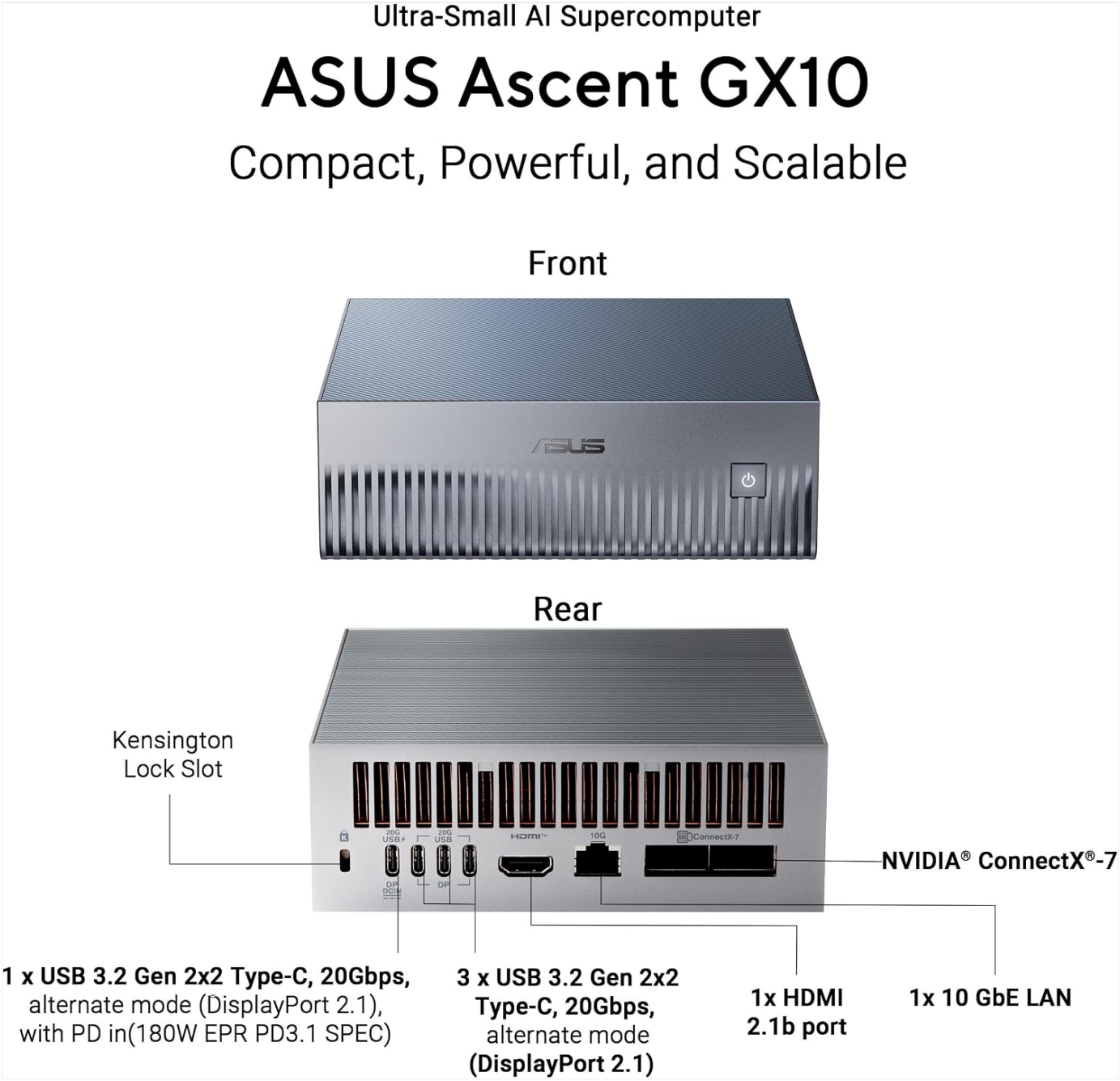


Image: Front and Rear view of the ASUS Ascent GX10, illustrating the location of the power button, Kensington Lock Slot, USB 3.2 Gen 2x2 Type-C ports (with DisplayPort 2.1 and PD in), HDMI 2.1 port, 10G LAN port, and NVIDIA ConnectX-7 ports.

Operating the ASUS Ascent GX10

The ASUS Ascent GX10 is optimized for AI development and research workloads. It comes pre-installed with NVIDIA DGX OS, which is based on Ubuntu Linux, and the NVIDIA AI software stack.

- **AI Development Environment:** The system includes NVIDIA NIM and Blueprints, supporting PyTorch, Jupyter, and Ollama for prototyping and inference.
- **Performance:** Powered by the NVIDIA GB10 Grace Blackwell Superchip, it delivers up to 1 petaFLOP of AI performance and supports up to 200 billion parameter models for development and inference.
- **Scalability:** Utilize NVIDIA ConnectX-7 networking to support stacking two GX10 systems for enhanced performance and larger model handling. NVIDIA NVLink-C2C provides ultra-fast CPU-GPU memory communication.



Image: Key features of the ASUS Ascent GX10, highlighting the NVIDIA GB10 Grace Blackwell Superchip, 128 GB LPDDR5x Coherent Unified System Memory, 1 petaFLOP of AI performance, NVIDIA Grace 20 Core Arm Processor, and up to 200B parameter capacity for AI model development and inference.



Image: Two ASUS Ascent GX10 systems stacked, illustrating the ability to connect multiple units for handling larger AI models, supported by NVIDIA ConnectX-7 SmartNIC and NVIDIA AI Software Stack.

Video: An overview of the ASUS personal AI supercomputer, detailing its features and capabilities for AI development.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your ASUS Ascent GX10.

- **Cleaning:** Regularly clean the exterior of the unit with a soft, dry cloth. Use compressed air to clear dust from the ventilation grilles to maintain efficient airflow.
- **Software Updates:** Keep the NVIDIA DGX OS and all AI software components updated to the latest versions to benefit from performance improvements, security patches, and new features.
- **Environmental Conditions:** Operate the device within recommended temperature and humidity ranges to prevent overheating and component damage.



Image: An exploded view of the ASUS Ascent GX10, illustrating its advanced thermal design with heat sinks and fans engineered for efficient cooling and sustained high performance.

Troubleshooting

If you encounter issues with your ASUS Ascent GX10, refer to the following common troubleshooting steps:

- **No Power:** Ensure the power adapter and cord are securely connected to both the unit and the electrical outlet. Verify the outlet is functional.
- **No Display:** Check the HDMI cable connection to both the unit and the monitor. Ensure the monitor is powered on and set to the correct input source.
- **System Instability/Crashes:** Ensure the unit has adequate ventilation and is not overheating. Check for and install any pending software or OS updates. If issues persist, consult the ASUS support website for further diagnostics.
- **Network Connectivity Issues:** For wired connections, verify the Ethernet cable is properly connected. For Wi-Fi, ensure the network is available and the correct password is entered.
- **Bluetooth Device Connection:** Ensure Bluetooth is enabled on the system and the device you are trying to connect. Refer to the NVIDIA DGX OS documentation for specific Bluetooth pairing instructions.

Specifications

Feature	Specification
Brand	ASUS
Model Number	GX10-GG0010BN
Operating System	NVIDIA DGX OS (Ubuntu Linux)
CPU Model	Cortex (NVIDIA GB10 Superchip)
CPU Speed	3.8 GHz (up to 4 GHz)
Graphics Coprocessor	Blackwell GPU
RAM Memory Installed Size	128 GB LPDDR5x
Memory Speed	6400 MT/s
Hard Disk Description	SSD (1TB PCIe G4x4 NVMe SSD)

Connectivity Technology	Wi-Fi 7 (802.11.be), Bluetooth 5.4, 10G LAN, HDMI, USB
Hardware Interface	Bluetooth 5, Ethernet, HDMI, USB 3.2 Gen 2x2
Video Output Interface	HDMI
Display Resolution Maximum	3840x2160 Pixels (4K)
Power Consumption	240 Watts
Item Dimensions (LxWxH)	5.91 x 5.91 x 2.01 inches (15 x 15 x 5.1 cm)
Item Weight	3.26 Pounds
Cooling Method	Fan
Specific Uses For Product	AI Development, AI Research, Machine Learning

Warranty and Support

The ASUS Ascent GX10 comes with a **1 Year Manufacturer Warranty**. For technical support, warranty claims, or additional product information, please visit the official ASUS support website or contact their customer service.

Keep your proof of purchase for warranty validation.

© 2026 ASUS. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question