

GPD BOX

User Manual

Model: GPD BOX

Model: GPD BOX

Version: V1.0

Release Date: March 2026

© 2026 Shenzhen GPD Technology Co., Ltd. All rights reserved.

Table of Contents

Table of Contents.....	2
Chapter 1 Safety Precautions.....	3
1.1 General Safety Warnings.....	3
1.2 Electrical Safety	3
1.3 Cooling and Ventilation.....	3
1.4 Anti-Static Precautions.....	3
Chapter 2 Product Overview.....	3
2.1 Product Introduction.....	3
2.2 Key Features.....	4
2.3 Specifications	4
2.4 Package Contents.....	5
Chapter 3 Hardware Overview.....	5
3.1 Front Panel Ports.....	6
3.2 Rear Panel Ports	6
3.3 Air Intake and Exhaust Vents	6
Chapter 4 Quick Setup Guide.....	6
4.1 Quick Setup Steps	6
4.2 System Information.....	7
4.3 Firmware and Driver Downloads	7
4.4 Entering BIOS	7
Chapter 5 Operating System and Drivers.....	7
5.1 Pre-installed OS	7
5.2 Drivers	7
5.3 MCIO Port GPU Driver Installation (Ultra 7 356H Only).....	7
Chapter 6 Hardware Expansion and Upgrades	8
6.1 About Memory Expansion.....	8
6.2 Replacing / Adding an SSD	8
6.3 Using the MCIO 8i Expansion Port (Ultra 7 356H Only)	8
Chapter 7 BIOS / UEFI Settings.....	9
7.1 Entering BIOS	9
7.2 Common Settings	9
7.3 Restoring BIOS Defaults	9
Chapter 8 System Recovery and Reinstallation	9
8.1 System Recovery	9
8.2 Reinstalling via USB	10
8.3 Data Backup Guide.....	10
Chapter 9 Troubleshooting	10
Chapter 10 Maintenance	11
10.1 Routine Cleaning and Maintenance	11
Chapter 11 Warranty and After-Sales Service	12
11.1 Warranty Period and Scope	12
11.2 Non-Warranty Conditions	12
11.3 Service Request Process.....	12
11.4 Contact Information.....	12

Chapter 1 Safety Precautions

1.1 General Safety Warnings

⚠ Warning: Please read this chapter carefully before using this product. Improper operation may result in personal injury or property damage.

- This product is for indoor use only. Do not use in humid, dusty, or corrosive environments.
- Place the product on a stable, flat surface to prevent damage from falls.
- Do not disassemble internal components, or the warranty will be void.
- Children should use this product under adult supervision. Keep the power cord away from young children.

1.2 Electrical Safety

- This product has a built-in 160W GaN power module, rated input: 100–240V~, 50/60Hz, includes power cable × 1.
- Do not place heavy objects on the power cord or position it where it may be stepped on.
- If the power cord or plug is damaged, stop using the product immediately.

⚠ Warning: Never immerse the product or power cord in liquid. If liquid spills into the product, disconnect power immediately and contact after-sales support.

1.3 Cooling and Ventilation

- Maintain at least 10 cm of clearance around the product. Do not place the product in a sealed cabinet.
- Do not block the air intake or exhaust vents.
- During extended high-load operation, place the product in a well-ventilated area. Consider using a cooling stand or similar device to enhance heat dissipation.

1.4 Anti-Static Precautions

- Before performing storage expansion, touch the metal chassis to discharge static electricity.
- It is recommended to perform hardware operations on an anti-static mat.
- When removing components, avoid touching the gold contacts and solder joints on the circuit board.

Chapter 2 Product Overview

2.1 Product Introduction

GPD BOX is a high-performance mini PC designed for gaming, content creation, programming, AI edge computing, and desktop virtualization. Powered by Intel Core Ultra 3rd Gen processors (multiple configurations available) with integrated high-performance graphics, it is only 1/20 the size of a traditional desktop, making it ideal for lab and embedded deployment scenarios.

 **Note:** This product is available in different configurations. The Ultra 7 356H version features an MCIO 8i high-speed expansion port, while the Ultra X7 358H version does not.

2.2 Key Features

- **Powerful Performance:** Features Intel 18A process Intel Core Ultra 3rd Gen processors, delivering outstanding computing and AI capabilities with TDP 15-80W.
- **High-Performance Graphics:** Integrated Intel Arc graphics with support for the latest graphics technologies and hardware acceleration.
- **Powerful AI Compute (Int8):** Integrated NPU (50 TOPS), total AI compute — 180 TOPS for Ultra X7 358H, 100 TOPS for Ultra 7 356H, suitable for local AI inference and edge computing.
- **Dual M.2 Storage Slots:** Primary slot supports PCIe Gen5 NVMe SSD (sequential read up to 15000 MB/s, ships with PCIe Gen4 NVMe SSD). Expansion slot is PCIe Gen4 x2 for users to add a second SSD.
- **Premium Expansion (Ultra 7 356H Only):** Equipped with MCIO 8i high-speed expansion port (PCIe 5.0 x8, bidirectional bandwidth 512 Gbps), supporting hot-pluggable external GPUs, AI accelerator cards, high-speed storage arrays, and more.
 - MCIO 8i expansion requires a dedicated MCIO 8i to 8i PCIe Gen 5 cable (sold separately). Visit the GPD official website or contact your dealer.
- **Comprehensive Connectivity:** Wi-Fi 6E + Bluetooth 5.3 + dual 2.5G Ethernet (supports link aggregation up to 5G).
- **Multi-Display Output:** Supports up to 4 independent displays simultaneously (DP 2.1 + HDMI 2.1 + USB4 v2.0 × 2).
- **Compact Design:** Dimensions of only 175 × 134 × 39.5 mm, weight approximately 940g, aluminum + PC housing.
- **Efficient Cooling:** Dual fans + four heat pipes (2×6mm + 2×8mm pure copper), supporting 80W sustained performance output.
- **Hardware-Level Security:** Equipped with dTPM (Trusted Platform Module), supporting BitLocker disk encryption, Windows Hello, and other security features to protect your data.

2.3 Specifications

Parameter	Specification
Processor	Intel 18A process Intel Core Ultra 3rd Gen processor, TDP 15-80W
Graphics	Integrated Intel Arc high-performance graphics
AI NPU Compute (Int8)	50 TOPS
Memory	LPDDR5x 8533 MT/s (onboard), 32GB or 64GB, dual-channel, non-expandable
Storage Slot 1	M.2 PCIe Gen5 x4 (primary), ships with 512GB~4TB PCIe Gen4 x4 NVMe SSD
Storage Slot 2	M.2 PCIe Gen4 x2 (expansion), factory empty, for capacity expansion

Parameter	Specification
Video Ports	DisplayPort 2.1 UHBR20 (80Gbps) × 1; HDMI 2.1 FRL (48Gbps) × 1
USB Ports	USB4 v2.0 × 2 (80Gbps symmetric / 120+40Gbps asymmetric); USB 3.2 Gen2 Type-A × 4 (10Gbps)
Expansion Port (Ultra 7 356H Only)	MCIO 8i port × 1 (PCIe 5.0 x8, hot-pluggable, bidirectional bandwidth approx. 512 Gbps); dedicated MCIO 8i to 8i PCIe Gen 5 cable required (sold separately)
Network Ports	2.5G RJ-45 × 2 (supports link aggregation up to 5G); Wi-Fi 6E; Bluetooth 5.3
Audio	3.5mm headphone/microphone combo jack; built-in 2W stereo speakers × 2; built-in high-sensitivity microphone; supports DTS:X Ultra
Power Button	Integrated RGB backlit fingerprint sensor, supports Windows Hello and Linux login; solid white when on, breathing white in sleep/standby, solid red in hibernation or off
BIOS Reset	BIOS reset pinhole (insert a thin pin)
Power Supply	Built-in 160W GaN power module (includes power cable × 1)
Operating System	Windows 11 Home (pre-installed); supports Linux distributions
Dimensions	175 × 134 × 39.5 mm
Weight	Approx. 940g
Housing Material	Aluminum + PC material
Operating Temperature	0°C ~ 40°C; Storage temperature: -20°C ~ 70°C

2.4 Package Contents

Please verify the following contents. If any items are missing or damaged, contact your dealer or call customer service within 7 days.

- GPD BOX Unit × 1
- Power Cable (IEC C13) × 1
- HDMI 8K Cable (1m) × 1
- Vertical Stand × 1
- User Manual × 1
- Warranty Card × 1



Note: The Ultra 7 356H version comes with an MCIO 8i expansion port. The MCIO 8i to 8i PCIe Gen 5 cable needs to be purchased separately from the supplier.

Chapter 3 Hardware Overview

3.1 Front Panel Ports

- USB4 v2.0 × 2 (80Gbps)
- USB 3.2 Gen 2 Type-A × 2 (10Gbps)
- 3.5mm Headphone/Microphone Combo Jack
- Microphone Port
- Speaker Output
- Power Button (with RGB backlit fingerprint sensor)

 **Note:** The unit features built-in 2W stereo speakers × 2 and a high-sensitivity microphone, supporting DTS:X Ultra audio technology.

3.2 Rear Panel Ports

- DisplayPort 2.1
- HDMI 2.1
- 2.5G Ethernet × 2
- USB 3.2 Gen 2 Type-A × 2 (10Gbps)
- MCIO 8i Expansion Port (Ultra 7 356H only)
- BIOS Reset Pinhole
- Power Connector (IEC C14)

 **Note:** The MCIO 8i expansion port requires a dedicated MCIO 8i to 8i PCIe Gen 5 cable (Ultra 7 356H exclusive). This cable is an optional accessory and must be purchased separately from the dealer.

3.3 Air Intake and Exhaust Vents

- SSD Cooling Air Intake
- CPU Cooling Air Intake
- CPU Cooling Air Exhaust
- SSD Cooling Air Exhaust

 **Note:** Ensure the air intake and exhaust vents are unobstructed for optimal cooling performance.

Chapter 4 Quick Setup Guide

4.1 Quick Setup Steps

1. Remove the product, power cable, and HDMI 8K cable from the box. Inspect for any visible damage.
2. Connect a display to the rear panel video port using an HDMI or DisplayPort cable.
3. Connect a USB keyboard and mouse to either the front or rear USB-A ports.

 **Note:** The front panel USB4 v2.0 ports are recommended for high-speed external drives, external GPU docks, and other high-performance peripherals.

4. For wired networking, connect to either 2.5G Ethernet port on the rear panel.
5. Connect the power cable to the rear panel power connector, and plug the other end into a power outlet.
6. Press the power button to turn on the unit. Wait for the system to boot and enter the Windows 11 initial setup.
7. Follow the on-screen wizard to complete the initial setup.

 **Note:** The first boot requires completing the Windows initial setup (language, network, account, etc.).

4.2 System Information

This product comes pre-installed with Windows 11 Home. For details about the operating system and driver installation, please refer to Chapter 5.

4.3 Firmware and Driver Downloads

To download system firmware and drivers, visit the following links:

- English Firmware: <https://www.gpd.hk/download>
- Chinese Firmware: <https://softwincn.com/gjxz>

 **Note:** For system recovery, please refer to Chapter 8.

4.4 Entering BIOS

Press the Del or Esc key during startup to enter the BIOS setup. Press F7 to enter the boot menu. For detailed BIOS settings, please refer to Chapter 7.

Chapter 5 Operating System and Drivers

5.1 Pre-installed OS

Pre-installed with Windows 11 Home. Supports installing various Linux distributions such as Ubuntu and Fedora.

5.2 Drivers

Factory-installed drivers include all core components (including Wi-Fi and Bluetooth drivers). After connecting to the internet, you can get the latest driver updates via Windows Update.

5.3 MCIO Port GPU Driver Installation (Ultra 7 356H Only)

 **Note:** This section applies only to the Ultra 7 356H version with the MCIO 8i port. The Ultra X7 358H version does not have this port.

 **Warning:** After connecting a GPD G2 GPU dock via the MCIO 8i port, you must install the corresponding GPU drivers first!

Download and install drivers from the official websites based on the installed GPU brand:

- AMD GPU: Download Radeon drivers from the AMD website.
 - Chinese: <https://www.amd.com/zh-cn/support/download/drivers.html>
 - English: <https://www.amd.com/en/support/download/drivers.html>
 - Japanese: <https://www.amd.com/ja/support/download/drivers.html>
- NVIDIA GPU: Download GeForce drivers from the NVIDIA website.
 - Chinese: <https://www.nvidia.cn/drivers/>
 - English: <https://www.nvidia.com/en-us/drivers/>
 - Japanese: <https://www.nvidia.com/ja-jp/drivers/>
- Intel GPU: Download Arc GPU drivers from the Intel website.
 - Chinese: <https://www.intel.cn/content/www/cn/zh/download-center/home.html>
 - English: <https://www.intel.com/content/www/us/en/download-center/home.html>
 - Japanese: <https://www.intel.co.jp/content/www/jp/ja/download-center/home.html>

Chapter 6 Hardware Expansion and Upgrades



Note: Hardware expansion operations will break the product's bottom seal but do not affect the motherboard warranty. Verify compatibility before installing new hardware.

6.1 About Memory Expansion

⚠ Warning: This product uses onboard LPDDR5x memory (32GB or 64GB), soldered to the motherboard. Memory cannot be upgraded or expanded after purchase. Please choose the appropriate memory configuration before purchasing.

6.2 Replacing / Adding an SSD

This product has two M.2 slots: the primary storage slot (PCIe Gen5 x4) comes with an SSD pre-installed, and the expansion slot (PCIe Gen4 x2) is empty and available for expansion.

To replace or add an SSD, power off the unit first, remove the bottom panel, insert the SSD into the slot at a 30° angle, and secure it.

⚠ Warning: Back up your data before replacing the primary SSD. The primary slot supports PCIe Gen5, while the expansion slot only supports PCIe Gen4.

6.3 Using the MCIO 8i Expansion Port (Ultra 7 356H Only)

The MCIO 8i is based on PCIe 5.0 x8 design, supporting hot-pluggable connection of the GPD G2 GPU dock as well as third-party GPU docks, AI accelerator cards, storage arrays, and more. This feature is only available on the Ultra 7 356H version with the MCIO 8i port.

⚠ Warning: After connecting a GPD G2 GPU dock, install the corresponding GPU drivers based on the GPU brand (see Chapter 5, Section 5.3).

To use MCIO expansion features, visit the GPD official website or contact your dealer to purchase the dedicated MCIO 8i to 8i PCIe Gen 5 cable separately.

Chapter 7 BIOS / UEFI Settings

7.1 Entering BIOS

Press Del or Esc during startup to enter the BIOS setup. Press F7 to enter the boot menu.

7.2 Common Settings

Parameter	Specification
Boot Order	Switch to the Boot tab, set Boot Option #1 in Boot Option Priorities to Windows Boot Manager (SSD name) to boot from Windows
TDP Power Limit	Adjustable between 15W–80W to set the CPU power limit
Secure Boot	When enabled, only signed operating systems can boot (recommended to keep enabled)
TPM (Trusted Platform Module)	The device is equipped with a dTPM module for BitLocker disk encryption, Windows Hello, and other security features. View TPM status and enable/disable in the Security tab.

7.3 Restoring BIOS Defaults

The following quick operations are available in BIOS:

- Press F2 to restore previous settings.
- Press F3 to restore factory defaults.
- Press F4 to save changes and exit BIOS.
- Press Esc to exit BIOS without saving.

Chapter 8 System Recovery and Reinstallation

8.1 System Recovery

This product provides two system recovery methods:

1. Windows Built-in Recovery (Recommended for regular use)

- Go to "Settings → System → Recovery" and click "Reset this PC".
- Reinstalls Windows using a local or cloud system image. You can choose to keep or remove personal files, apps, and settings.
- Some third-party drivers may be removed. Recovery may fail in some cases.

2. Factory Recovery Partition (Preserves factory configuration)

- After restarting, press the Tab key during startup to enter the system recovery interface.
- This feature uses the factory-built Windows recovery partition for a complete restore.

- All factory-preinstalled drivers, GPD custom settings, and optimized configurations will be restored.

⚠ Warning: System recovery will erase all user data on the C drive! Be sure to back up important files in advance.

📄 Note: Due to inherent Windows design limitations, there is a probability of recovery failure. If recovery fails, try again multiple times or use the USB installation method.

8.2 Reinstalling via USB

This method uses a fresh Windows 11 installation image (user-provided):

- On a working computer, download the Windows 11 Media Creation Tool.
- Follow the instructions to create a Windows 11 installation USB drive.
- Insert the USB drive into this unit, press F7 during startup to enter the boot menu.
- Select the USB device to boot from, and follow the Windows installation wizard to complete the reinstallation.

⚠ Warning: This method will not install GPD-optimized drivers and software. If installing a different Windows edition than the factory version (such as Professional or Enterprise), you will need to provide your own product key for activation.

8.3 Data Backup Guide

Before performing system recovery or reinstallation, ensure all important data is backed up:

- Personal documents: Copy files such as documents, photos, and videos to a USB drive or external hard drive.
- Software data: Browser bookmarks, chat history, game saves, etc.
- System settings: Windows settings, desktop layout, keyboard configuration, etc.
- We recommend using Windows Backup: "Settings → Accounts → Windows backup".

📄 Note: Regular data backups are recommended to prevent data loss due to system issues.

Chapter 9 Troubleshooting

Issue	Possible Cause	Solution
Cannot power on	Power cable not connected properly or outlet has no power	Check power cable connection; try a different outlet
No display output	Video cable not connected properly or incorrect display input source	Re-seat DisplayPort/HDMI cable; switch display input source to the correct port
Wi-Fi cannot connect	Driver not loaded or signal interference	Check Wi-Fi driver status in Device Manager; move away from interference sources such as microwaves
Bluetooth cannot pair	Device too far away or already connected to another device	Bring the device within 1m of GPD BOX; remove existing pairings on the device

Issue	Possible Cause	Solution
		and retry
System running slowly	Insufficient cooling or too many background programs	Check if air intake or exhaust vents are blocked; close unnecessary background programs
USB device not recognized	Insufficient port power or missing driver	Try a different USB4 v2.0 or USB-A port; restart and reconnect the device
No audio output	Volume muted or incorrect default audio device	Click the volume icon in the taskbar to check mute status; select the correct output device in Sound settings
No sound from video output	HDMI/DisplayPort audio device not set as default	Right-click volume icon in taskbar → Sound settings → set the corresponding output as default
MCIO expansion device not recognized (Ultra 7 356H only)	Device not properly inserted or driver missing	Ensure MCIO cable is properly inserted; install the driver provided with the device
Device overheats and shuts down	Ambient temperature too high or vents blocked	Clean air intake and exhaust vents; move device to a well-ventilated area; consider reapplying thermal paste or thermal pads
Fingerprint not working	Fingerprint not enrolled or finger is wet/dry	Enroll fingerprint in Windows Settings; ensure fingers are clean and dry
System recovery failed	Probabilistic issue due to Windows design limitations	Restart and attempt recovery again; if it fails multiple times, consider using USB installation method

If the above methods do not resolve the issue, please visit the GPD online support center (<https://www.softwincn.com>) or contact the customer service of the store where you purchased the product.

Chapter 10 Maintenance

10.1 Routine Cleaning and Maintenance

- Wipe the exterior with a soft dry cloth. For stubborn stains, use a small amount of alcohol. Avoid getting liquid into the ports.
- Use compressed air to clean the air intake and exhaust vents every 3–6 months. Pay attention to the spray direction — never invert the can to prevent condensation from damaging the motherboard.
- Avoid direct sunlight and humid environments. If not used for an extended period, power on the device for 10 minutes each month.

Chapter 11 Warranty and After-Sales Service

11.1 Warranty Period and Scope

Parameter	Specification
Complete Unit	12 months from date of purchase
Built-in Power Module	12 months from date of purchase
Included Accessories	12 months from date of purchase

11.2 Non-Warranty Conditions

- Damage caused by human-induced drops, impacts, liquid ingress, or modifications.
- Unauthorized disassembly of the motherboard or use of non-original replacement parts.
- Damage caused by using a non-original power cable.
- Damage caused by natural disasters (lightning, flooding, etc.) or force majeure.

11.3 Service Request Process

Call the customer service hotline or contact the store's customer service. They will provide the return shipping address.

 **Note:** During the warranty period, material and labor costs are waived. Outside the warranty period, the device must be returned for inspection first. Repairs will proceed only after the user agrees to the confirmed fault cause and repair costs.

11.4 Contact Information

Parameter	Specification
Customer Service Hotline	+86 0755-86572275 (Weekdays 9:00–18:00)
Online Support	https://www.softwincn.com / https://www.gpd.hk
Official WeChat	Scan the QR code to follow the "GPD" official WeChat account for online support

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.