

## SHINYSNAKE L300

# SHINYSNAKE L300 Mesh Mini-ITX Gaming PC Case Instruction Manual

Model: L300

## 1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your SHINYSNAKE L300 Mesh Mini-ITX Gaming PC Case. The L300 is an ultra-compact 8.5L vertical ITX chassis designed to maximize desk space while accommodating dual-slot GPUs up to 325mm. It features advanced mesh cooling and expandable I/O for a high-performance, portable mini-ITX build.

### What's Included:

- 1 x SHINYSNAKE L300 ITX Chassis
- 1 x PCI-e 3.0 Riser Cable
- 1 x DP 1.4 Cable (4K@120Hz)
- 1 x Steel Handle
- 1 x Installation Manual



Figure 1.1: SHINY SNAKE L300 package contents.

## 2. SAFETY INFORMATION

Always exercise caution when handling computer components. Disconnect the power supply from the wall outlet before performing any installation or maintenance. Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to sensitive components. Keep small parts away from children. Refer to individual component manuals for specific safety guidelines.

## 3. SETUP AND INSTALLATION

Follow these steps to assemble your SHINY SNAKE L300 PC case. It is recommended to lay the case flat on a stable, non-conductive surface during assembly.

### 3.1 Case Disassembly

1. Remove the screws securing the side panels.
2. Carefully slide and remove both mesh side panels.
3. Remove any internal brackets (e.g., fan bracket, PSU bracket) as needed for component installation.

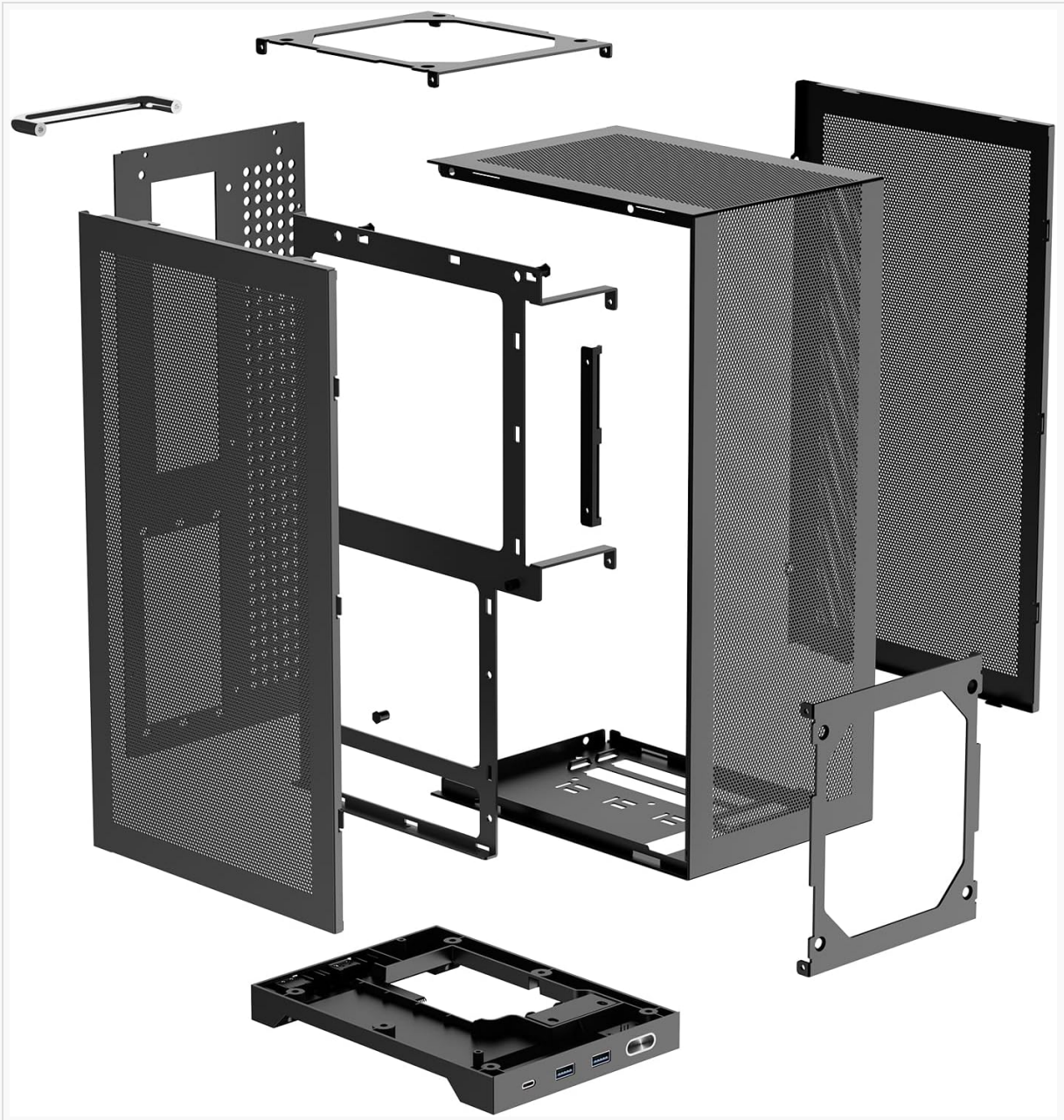


Figure 3.1: Exploded view of the L300 chassis.

### 3.2 Motherboard and CPU Installation

1. Install your Mini-ITX motherboard with CPU, CPU cooler (max 120mm compatible), and RAM outside the case first.
2. Pre-install any necessary fan splitter cables and connect CPU power cables to the motherboard.
3. Install the motherboard I/O shield into the case.
4. Carefully place the assembled motherboard into the chassis, aligning it with the standoffs. Secure with screws.

### **3.3 PSU and Cable Management**

1. Install the SFX/SFX-L power supply into its designated bay. Ensure modular cables are connected before securing the PSU.
2. Route the 8-pin CPU power cable from the top of the motherboard towards the PSU compartment.
3. Connect the 24-pin and other necessary power cables to the motherboard.
4. Connect front panel I/O cables (USB 3.0, Type-C, Power Switch, Audio) to the motherboard headers.
5. Use cable ties to manage and secure all cables for optimal airflow and aesthetics.

### **3.4 GPU Installation**

1. Install the included dual reverse PCIe 3.0 riser cable into the motherboard's PCIe slot. Secure it with screws.
2. Pre-route GPU power cables from the PSU compartment to the GPU area.
3. Connect the GPU power cables to your graphics card.
4. Carefully insert the graphics card into the riser cable slot.
5. Secure the GPU to the chassis using the provided PCI-e bracket and screws.

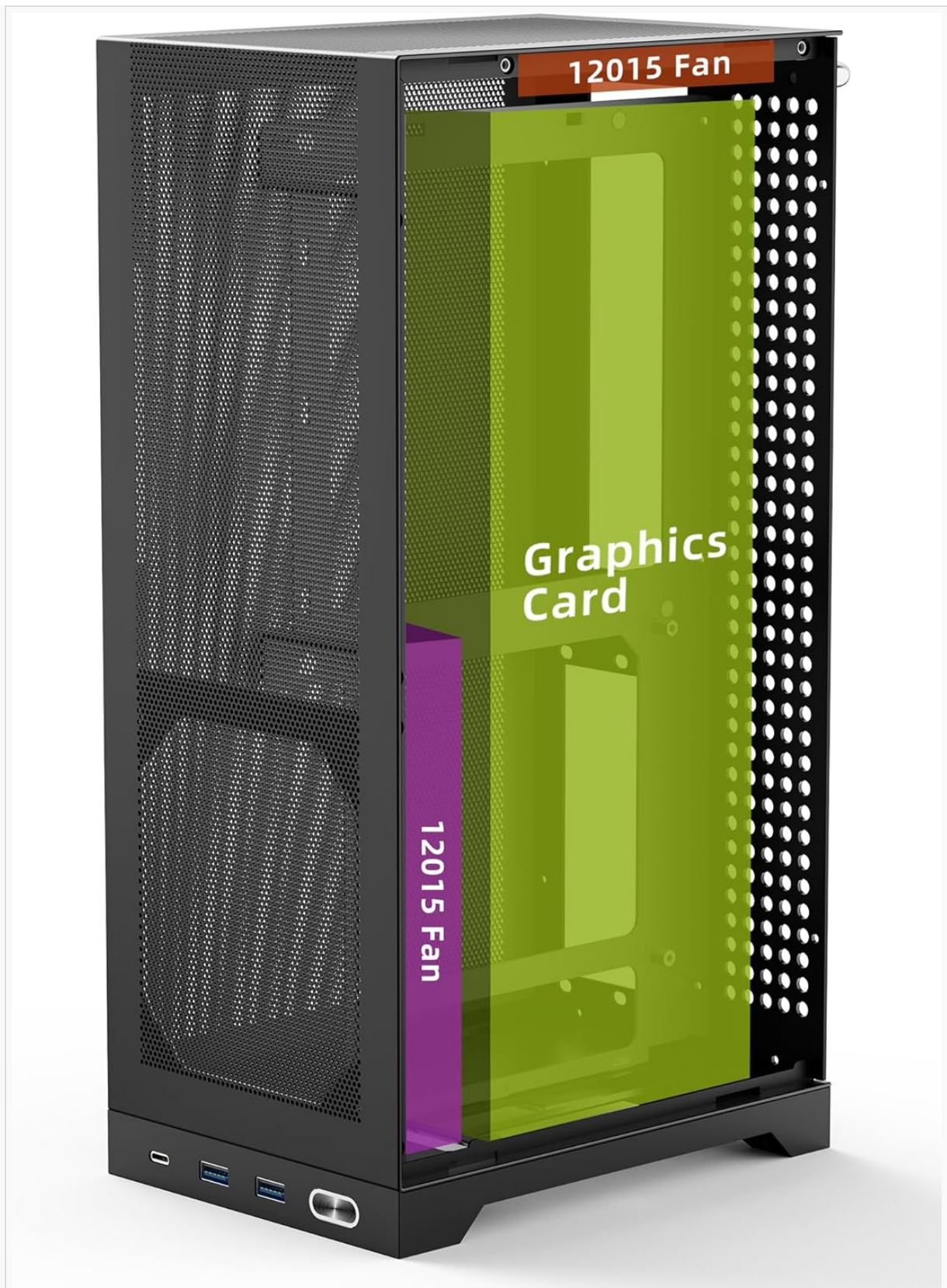


Figure 3.2: Vertical GPU mounting in the L300 chassis.

### 3.5 Final Assembly

1. Install the steel handle onto the top of the case, securing it with screws.
2. Reattach the mesh side panels and secure them with their respective screws.
3. Connect the complimentary 90-degree curved DP 1.4 cable to your GPU.

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Video 3.1: Detailed installation guide for the SHINY SNAKE L300 PC case, demonstrating component placement and cable

## 4. OPERATING INSTRUCTIONS

### 4.1 Power On/Off

Press the power button located on the front panel to turn your PC on or off. A short press will initiate shutdown or sleep mode, while a long press (typically 5-10 seconds) will force a shutdown.

### 4.2 Front Panel I/O

The front panel provides convenient access to various ports:

- **1x Type-C (10Gbps):** For rapid file transfers and connecting modern peripherals.
- **2x USB 3.0 (5Gbps):** For connecting USB devices such as keyboards, mice, and external drives.
- **Power Button:** To control the power state of your PC.

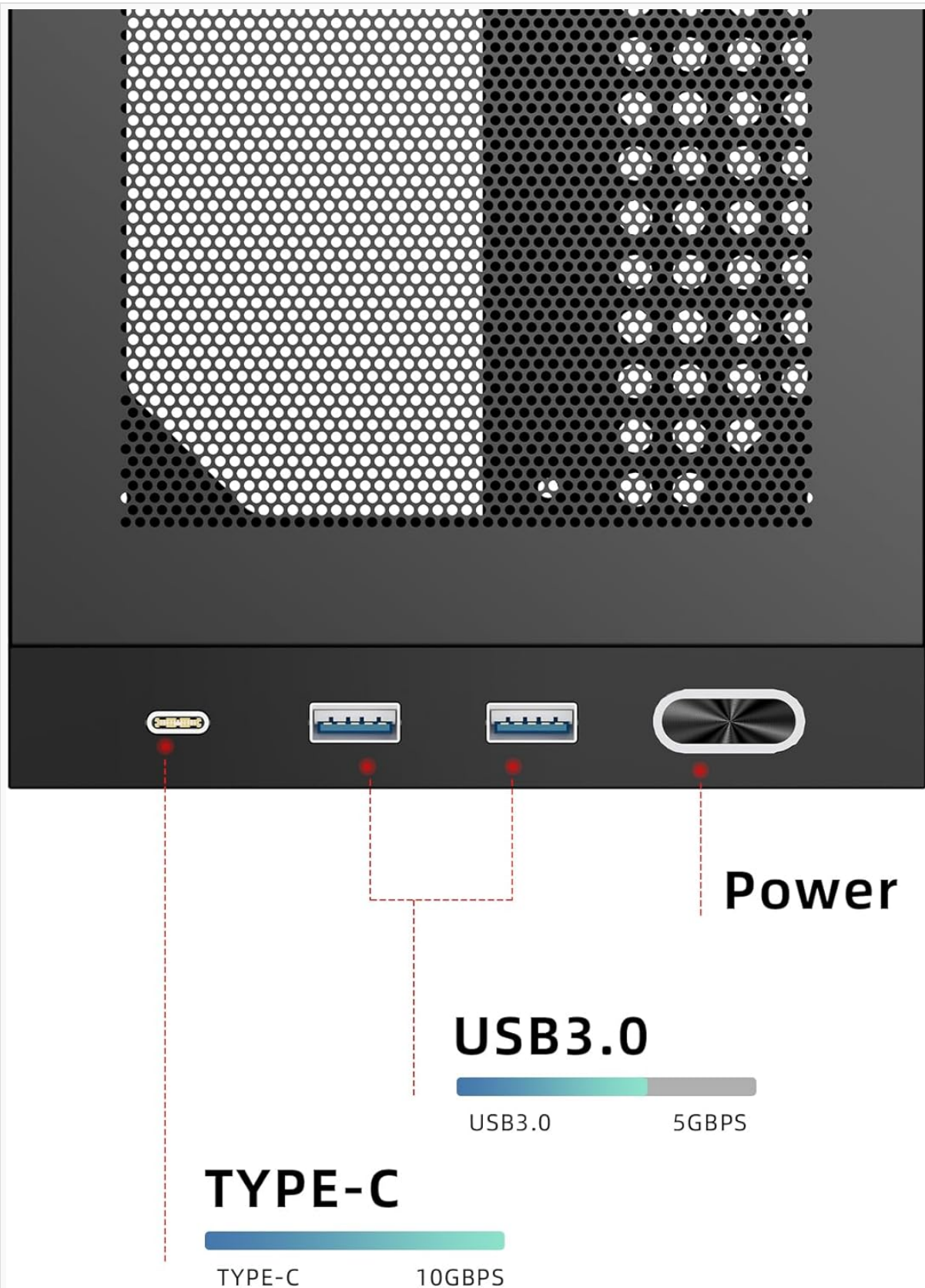


Figure 4.1: Front panel I/O ports.

## 5. MAINTENANCE

### 5.1 Cleaning

The L300 case features full-perforation steel mesh side panels designed for optimal airflow and dust filtration. Regularly clean the mesh panels to maintain airflow and prevent dust buildup inside the case. Use a soft brush or compressed air to gently remove dust from the mesh and internal components. Ensure the PC is powered off and unplugged before cleaning.

## 6. TROUBLESHOOTING

### 6.1 No Power

- Ensure the power cable is securely connected to both the PSU and the wall outlet.
- Verify the PSU switch is in the 'ON' position.
- Check all internal power connections (24-pin, 8-pin CPU, GPU power) to the motherboard and components.
- Confirm the front panel power switch cable is correctly connected to the motherboard header.

### 6.2 No Display Output

- Ensure your monitor is connected to the graphics card (GPU) output, not the motherboard's integrated graphics ports.
- Verify the DP 1.4 extension cable is securely connected at both ends.
- Check that the GPU is properly seated in the PCIe riser cable and that the riser cable is correctly installed in the motherboard.
- If using PCIe 3.0 riser, ensure your motherboard BIOS is manually set to Gen3 for stable performance.

### 6.3 Overheating Issues

- Ensure all cooling fans (CPU, chassis) are properly installed and spinning.
- Verify that thermal paste is correctly applied to the CPU cooler.
- Check for any obstructions to airflow within the case, especially around the mesh panels.
- Ensure proper cable management to avoid impeding airflow.

## 7. SPECIFICATIONS

| Feature                    | Specification   |
|----------------------------|---|
| Brand                      | SHINYSNAKE  |
| Model Name                 | L300  |
| Case Type                  | Mini-Tower (8.5L Ultra-Compact)                                 |
| Motherboard Compatibility  | Mini ITX  |
| Product Dimensions (LxWxH) | 7.4 x 5.3 x 14 inches (188 x 135 x 356mm)                       |
| Item Weight                | 5.29 pounds (2.4 kg)  |
| GPU Length Support         | Up to 12.8 inches (325mm)                                       |
| PSU Compatibility          | SFX/SFX-L   |
| Cooling Method             | Air (Dual 120x15mm ultra-slim fans compatible)                  |
| Front I/O Ports            | 1x Type-C (10Gbps), 2x USB 3.0 (5Gbps)                          |
| Material                   | High-density steel, Acrylonitrile Butadiene Styrene (ABS), SPCC |



Figure 7.1: L300 chassis dimensions.

## 8. WARRANTY AND SUPPORT

For warranty information, technical support, or compatibility guidance, please refer to the official SHINYSNAKE website or contact their customer service directly. Keep your purchase receipt for warranty claims.

