Jectse Jectse76gc9h0ya1

Jectse External GPU Dock (Model Jectse76gc9h0ya1) User Manual

Enhance your computing experience with external graphics processing.

1. Product Overview

The Jectse External GPU Dock is designed to expand the graphics capabilities of compatible computers, including NUCs, laptops, and gaming consoles. It features a USB4.0 interface for high-speed data transfer and supports PCIe x16 GPUs, offering enhanced performance for demanding applications and gaming. The dock also includes multiple connectivity options such as Thunderbolt 3 ports, Gigabit RJ45 Ethernet, and an M.2 NVMe SSD slot for expanded storage.

Figure 1: Jectse External GPU Dock and included accessories.

Key Features:

- **Versatile Compatibility:** Suitable for NUCs, laptops, and gaming consoles with USB4.0/Thunderbolt 3 interfaces.
- **Efficient Data Transfer:** Supports PCIe 3.0 x4 speeds of 32Gbps and 40Gbps data transfer via USB4.0/Thunderbolt 3.
- **Performance Enhancement:** Compatible with PCIe x16 GPUs, featuring 2 x TB3 ports, Gigabit RJ45, and M.2 NVMe SSD slots.
- **Multiple Power Options:** Supports ATX/SFX standard power supplies based on PCIe card requirements.
- **Easy Installation:** Aluminum alloy construction with SFX and ATX brackets for straightforward GPU and power supply installation.

2. Safety Information

Please read and understand all safety instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the power supply is correctly connected and rated for your graphics card's power requirements.
- Do not expose the device to water, moisture, or extreme temperatures.
- Avoid placing heavy objects on the device.
- Use only the provided or recommended cables and accessories.
- This product is only compatible with computers equipped with Thunderbolt ports and USB4 ports. It is not compatible with Thunderbolt 1 or Thunderbolt 2 ports, or Thunderbolt 2 converters.

3. Setup Guide

3.1. Power Supply Compatibility Check

Before proceeding with the full installation, it is crucial to verify that your power supply unit (PSU) is compatible with the GPU dock. This step ensures proper functionality and prevents potential issues.

1. Connect the 24-pin power cable from your ATX/SFX power supply to the corresponding 24-pin port on the GPU dock's base panel.
2. Connect the power cord to the PSU and turn on the power switch.
3. Observe the power supply test light on the GPU dock. A continuously lit green light indicates that the power supply is working normally and is compatible. If the green light does not illuminate, the power supply is incompatible and should be replaced.

Video 1: Initial power supply check for the Thunderbolt 4/USB 4 eGPU Dock. This video demonstrates connecting the power supply and verifying its functionality via an indicator light.

3.2. Assembling the Dock and Installing the Graphics Card

Follow these steps to physically assemble the GPU dock and install your graphics card.

1. Align the power bracket with the USB port on the base panel and secure it using the provided screws. There are typically two screws on the bottom for stability.
2. Align the ATX or SFX power supply with the four mounting holes on the bracket and secure it with screws.
3. Locate the PCIe slot on the dock. Before inserting your graphics card, ensure any protective covers on the card's gold fingers are removed.
4. Carefully align the graphics card with the PCIe slot and insert it firmly until it is fully seated.
5. Secure the graphics card to the bracket using the provided screws.
6. Connect the PCIe power cables from your power supply to the corresponding power ports on your graphics card. Ensure all connections are secure.

Figure 2: Step-by-step assembly of the GPU dock, showing the power supply and graphics card installation.

Video 2: Detailed installation guide for the ORARA GPU Dock Station, covering physical assembly and connections.

3.3. Connecting to Your Computer

Once the dock is assembled and the graphics card is installed, connect it to your computer.

1. Ensure the power supply for the GPU dock is plugged in and the power switch is turned on.
2. Connect one end of the Thunderbolt cable to the Thunderbolt port on the GPU dock.
3. Connect the other end of the Thunderbolt cable to a compatible Thunderbolt 3 or USB4.0 port on your laptop or NUC. Thunderbolt ports are typically marked with a small lightning bolt symbol.

Figure 3: The GPU dock connected to a laptop, ready for operation.

4. Driver Installation

For your external graphics card to function correctly, you must install the appropriate drivers. This process typically involves uninstalling any generic drivers and then installing the manufacturer-specific drivers.

1. **Check Device Manager:** Right-click on 'This PC' (or 'My Computer'), select 'Manage', then 'Device Manager'. Expand 'Display adapters'. Initially, your external GPU might appear as a 'Microsoft Basic Display Adapter' or not be fully recognized, indicating that the correct driver is not installed.
2. **Uninstall Existing Drivers (if necessary):** If you encounter issues or a driver mismatch, it is recommended to uninstall any existing graphics drivers. Tools like Display Driver Uninstaller (DDU) can be used for a clean removal. Select 'GPU' and the brand (e.g., NVIDIA, AMD) of your external GPU, then click 'Clean and restart'.
3. **Download New Drivers:** Visit the official website of your graphics card manufacturer (e.g., NVIDIA, AMD, Intel). Navigate to their driver download section. Select the correct product category, series, model, and operating system (e.g., Windows 10 64-bit or Windows 11). Ensure you download the **desktop version** of the driver, not the laptop version.
4. **Install New Drivers:** Run the downloaded driver installation package. Follow the on-screen prompts, typically installing with the default or recommended configuration.

5. **Verify Installation:** After the driver installation is complete and your computer has restarted, check the Device Manager again. Your graphics card model should now be correctly displayed under 'Display adapters', indicating successful driver installation.

Video 3: Guide on connecting an eGPU via RIITOP eGPU Dock and installing the necessary drivers for proper recognition and functionality.

5. Operating Instructions

Once the GPU dock is set up and drivers are installed, your external graphics card should be ready for use. The system will automatically detect and utilize the external GPU for demanding tasks.

- **Power On/Off:** Always ensure your computer is powered on before connecting the Thunderbolt cable to the dock. When disconnecting, it's best practice to safely remove the device via the operating system's 'Safely Remove Hardware' option if available, or power down the computer first.
- **Performance Settings:** You can typically manage which applications use the external GPU through your graphics card's control panel (e.g., NVIDIA Control Panel, AMD Radeon Software).
- **Charging:** The dock supports PD 60W charging, allowing you to charge your laptop while using the external GPU.

6. Troubleshooting

If you encounter any issues, refer to the following troubleshooting tips:

- **GPU Not Detected:**
  - Ensure all power cables (24-pin ATX, PCIe power to GPU) are securely connected.
  - Verify the Thunderbolt cable is properly connected to both the dock and a compatible port on your computer.
  - Check the power indicator light on the dock to confirm the power supply is functioning.
  - Re-check driver installation as described in Section 4.
- **Performance Issues:**
  - Ensure your graphics card drivers are up to date.
  - Confirm that the application or game is configured to use the external GPU.
  - Check for any background processes consuming system resources.
- **No Display Output:**
  - Ensure your monitor is connected directly to the external graphics card's output ports (HDMI, DisplayPort).
  - Verify the monitor input source is correctly selected.

7. Specifications

Feature	Value
Product Dimensions	9.96 x 6.38 x 1.61 inches (253 x 162 x 41mm)
Item Weight	2.71 pounds

Model Number	Jectse76gc9h0ya1
Hardware Interface	Thunderbolt 3, USB4.0
Compatible Devices	Laptops, NUCs, Gaming Consoles
Total USB Ports	2 (Thunderbolt 3)
Number of Ports	3 (2x TB3, 1x RJ45, 1x M.2 NVMe slot)
Power Delivery (PD)	60W
Data Transfer Rate	40Gbps (USB4.0/Thunderbolt 3), 32Gbps (PCIe 3.0 x4)
Extended Hard Disk Interface	M.2 NVMe SSD (supports up to 2TB, not included)
Network Port	1000Mbps RJ45
Graphics Card Support	PCIe x16
Power Supply Support	ATX/SFX standard power supply

8. Maintenance

To ensure the longevity and optimal performance of your Jectse External GPU Dock, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the exterior of the dock with a soft, dry cloth. Avoid using liquid cleaners or solvents. Ensure the GPU and power supply fans are free from dust buildup to maintain efficient cooling.
- **Ventilation:** Ensure the dock is placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.
- **Storage:** When not in use for extended periods, store the dock in a cool, dry place away from direct sunlight and extreme temperatures.

9. Warranty and Support

The Jectse External GPU Dock comes with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or contact Jectse customer support. If you require technical assistance, troubleshooting, or have questions about your product, please contact Jectse customer support through their official website or the retailer where you purchased the product.