

## GeekPi VCDP-0022

# GeekPi DeskPi RackMate T1 8U Server Cabinet Instruction Manual

Model: VCDP-0022

## 1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your GeekPi DeskPi RackMate T1 8U Server Cabinet. This 10-inch server rack is designed to accommodate various data, network, audio, and video equipment, making it suitable for home labs, small offices, or studio environments.

The RackMate T1 features an aluminum alloy frame and translucent acrylic side panels, offering both durability and a clear view of your installed equipment. Its open design facilitates easy access for installation and maintenance, while also promoting optimal airflow for cooling.

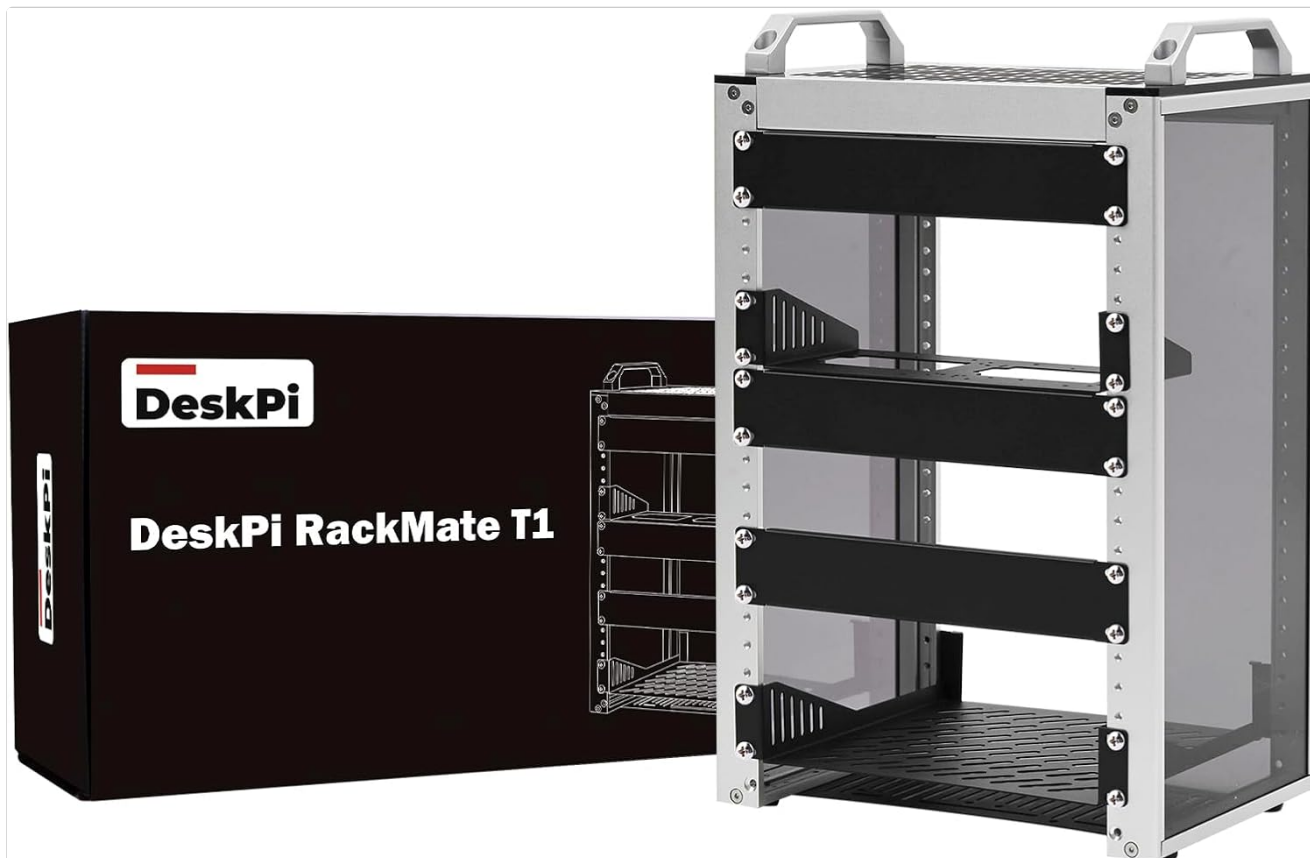


Image 1.1: GeekPi DeskPi RackMate T1 8U Server Cabinet (Silver)

## 2. PACKAGE CONTENTS

Before beginning assembly, please verify that all components listed below are present in your package. If any parts are missing or damaged, please contact customer support.

### Package Included

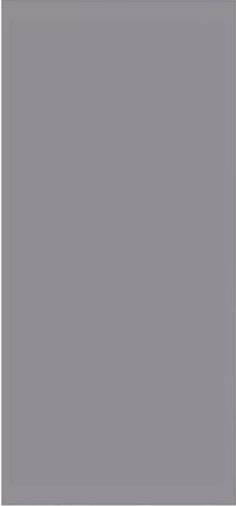





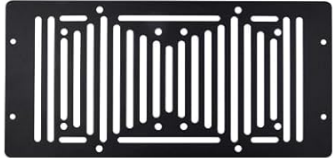

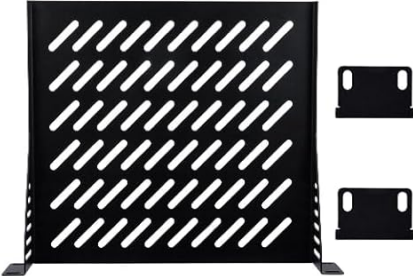
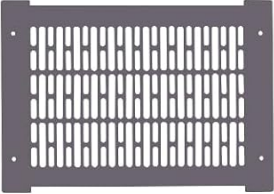















	 Aluminum rod X4		 Micro HDMI to HDMI Adapter Board X2	
	 Aluminum rod X2		 SBC shelf X1	
	 Aluminum alloy handle X2		 Fixing Plate X1 (optional fan installation)	
 Aluminum rod X4	 10 inch 1U Rack X1			
	 Blank Panel 10 inch 1U Rack X3		 KM4x20mm X4	 #10-32 5/16 X24
	 M3 Screwdriver cross X1		 KM4x16mm X12	 KM4x10mm X4
	 M2.5 Hexagon screwdriver X1		 M4x8mm X4	 M2.5x7+6mm X4
	 Anti-vibration rubber feet X4	 M3x5mm X8	 M2.5x5+5mm X16	 M2.5x5mm X20
			 M2.5x6x4mm X20	

Image 2.1: Overview of included components

- Aluminum Rod x4 (for vertical frame)
- Aluminum Rod x2 (for horizontal support)
- Aluminum Alloy Handle x2
- Acrylic Protection Plate x2 (side panels)
- Micro HDMI to HDMI Adapter Board x2
- SBC Shelf x1 (for Single Board Computers)
- 10 inch 1U Rack x1
- Fixing Plate x1 (optional fan installation)

- Acrylic Top Cover x1
- Blank Panel 10 inch 1U Rack x3
- Anti-slip Protection Mat x4
- Anti-vibration Rubber Feet x4
- M3 Screwdriver Cross x1
- M2.5 Hexagon Screwdriver x1
- Various Screws and Washers (KM4x20mm x4, #10-32 5/16 x24, KM4x16mm x12, KM4x10mm x4, M4x8mm x4, M2.5x7+6mm x4, M3x5mm x8, M2.5x5+5mm x16, M2.5x5mm x20, M2.5x6x4mm x4)

### 3. PRODUCT SPECIFICATIONS AND DIMENSIONS

The DeskPi RackMate T1 is an 8U rack with a 10-inch width, designed for compact server and network setups.

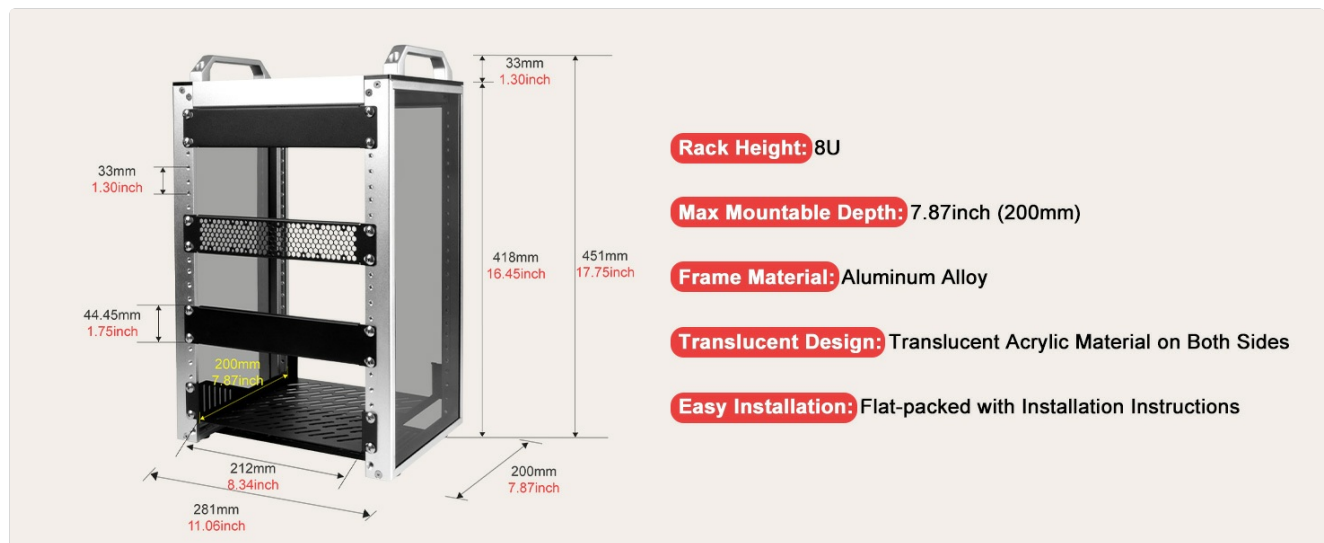


Image 3.1: Product Dimensions and Key Features

- **Rack Height:** 8U (1U = 1.75 inches, total height approximately 14 inches)
- **Max Mountable Depth:** 7.87 inches (200mm)
- **Frame Material:** Aluminum Alloy
- **Side Panels:** Translucent Acrylic
- **Overall Dimensions (L x W x H):** Approximately 11.06 x 8.34 x 17.75 inches (281mm x 212mm x 451mm)
- **Color:** Silver
- **Model Number:** VCDP-0022
- **Assembly Required:** Yes
- **Mounting Type:** Rack Mount

### 4. SETUP AND ASSEMBLY INSTRUCTIONS

The DeskPi RackMate T1 is designed for straightforward assembly. Follow these general steps:

1. **Unpack Components:** Carefully remove all parts from the packaging and verify against the package contents list.
2. **Assemble the Frame:**
  - Attach the four vertical aluminum rods to the base and top plates using the appropriate screws and washers. Ensure all connections are secure.

- Install the two horizontal aluminum rods for additional structural support.
3. **Attach Side Panels:** Secure the translucent acrylic protection plates to the sides of the assembled frame using the designated screws.
  4. **Install Handles and Feet:** Attach the aluminum alloy handles to the top of the rack. Apply the anti-slip protection mats and anti-vibration rubber feet to the bottom of the rack.
  5. **Mount Rack Units:**
    - The rack supports 10-inch wide, 1U height equipment.
    - Install the provided 10-inch 1U rack units, SBC shelf, and blank panels into the desired positions within the frame using the appropriate screws.
    - The SBC shelf is designed for single-board computers like Raspberry Pi or Jetson Nano.
    - The fixing plate can be used for optional fan installation to enhance cooling.
  6. **Cable Management:** Plan your cable routing as you install equipment to maintain an organized and efficient setup.



Image 4.1: Rack compatibility with various mini PCs and SBCs

## PRINTING 3D PRINTED ACCESSORIES FOR THE CABINET

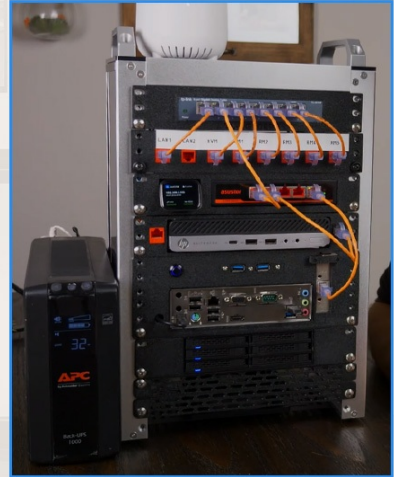


Image 4.2: Example of a populated rack with organized cabling

## 5. OPERATING PRINCIPLES

The DeskPi RackMate T1 provides a structured environment for your computing and networking equipment. Its open design allows for easy access and airflow.

- **Equipment Installation:** Mount your 10-inch rack-compatible devices (e.g., network switches, mini PCs, storage devices) onto the rack units. Ensure proper ventilation for all devices.
- **Cable Management:** Utilize cable ties and routing channels to keep cables organized and prevent obstruction of airflow. This also simplifies troubleshooting and maintenance.
- **Cooling:** The open design naturally aids in cooling. For equipment with higher thermal output, consider installing optional fans on the designated fixing plate to improve heat dissipation.
- **Accessibility:** The open sides and front allow for quick access to ports and components without needing to disassemble the rack.

# SERVER RACK- VERY COMPACT



Image 5.1: A compact server rack in operation

Image 5.2: Various usage scenarios for the server cabinet

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your server cabinet and the equipment housed within it.

- **Cleaning:** Periodically wipe down the aluminum frame and acrylic panels with a soft, damp cloth. Avoid abrasive cleaners that could scratch the surfaces.
- **Dust Removal:** Due to its open design, dust accumulation can occur. Use compressed air or a soft brush to remove dust from equipment and rack surfaces to maintain proper airflow and prevent overheating.
- **Screw Tightness:** Over time, screws may loosen. Periodically check all screws and tighten them as necessary to ensure structural stability.
- **Cable Inspection:** Inspect cables for any signs of wear, fraying, or damage. Replace damaged cables

immediately to prevent connectivity issues or electrical hazards.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your server cabinet setup.

- Issue: Rack feels unstable after assembly.**  
**Solution:** Ensure all screws are fully tightened. Double-check that all frame components are correctly aligned and seated. The anti-vibration rubber feet should be properly installed on a flat surface.
- Issue: Equipment overheating.**  
**Solution:** Verify that there is adequate space around each piece of equipment for airflow. Ensure no cables are blocking ventilation ports. Consider installing additional cooling fans on the designated fixing plate if temperatures remain high.
- Issue: Difficulty mounting a device.**  
**Solution:** Confirm that your device is compatible with 10-inch rack standards. Ensure you are using the correct type and size of screws for mounting. Some devices may require specific mounting brackets (not included with the rack) to fit properly.

## 8. WARRANTY AND SUPPORT






The GeeekPi DeskPi RackMate T1 Server Cabinet comes with a manufacturer's warranty. Please refer to the details below:

- Manufacturer Warranty:** 90-day manufacturer's warranty.
- Spare Parts Availability:** Information regarding spare parts availability is not provided.
- Software Updates:** Not applicable for this product.

For technical support or warranty claims, please contact GeeekPi customer service through their official channels or the retailer where the product was purchased.

### Related Documents - VCDP-0022

	<p><a href="#">Honeywell Fendall Porta Stream I Portable Eyewash Station - Product Overview and Specifications</a></p> <p>Comprehensive product details for the Honeywell Fendall Porta Stream I, a portable, gravity-fed eyewash station providing 6 minutes of uninterrupted flushing. Includes key features, specifications, ordering information, replacement parts, warranty, and technical support.</p>
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	<p><a href="#">DWVO 24-inch Rustic Bathroom Vanity Assembly Instructions</a></p> <p>Comprehensive assembly instructions for the DWVO 24-inch Rustic Bathroom Vanity, model FTHKCT-0022/FTHKCT-0023. Includes parts list, step-by-step assembly guide, and hinge adjustment tips.</p>
	<p><a href="#">PREPAC 32 Inch Storage Cabinet Assembly and Installation Guide</a></p> <p>Detailed assembly and installation guide for the PREPAC 32 Inch Storage Cabinet. Includes parts list, tool requirements, step-by-step instructions, and customer support information.</p>
	<p><a href="#">ROSE-475-PKG02-ACCY01 Accessory Kit for 475 Field Communicator</a></p> <p>This document details the accessory kit ROSE-475-PKG02-ACCY01 for the 475 Field Communicator, including a getting started guide, USB drive, power supply, stylus, hand strap, lead set, carrying case, and rubber boot.</p>
	<p><a href="#">Rose-475-Pkg01-Accy01 Accessory Kit for 475 Field Communicator</a></p> <p>This document details the accessory kit ROSE-475-PKG01-ACCY01 for the 475 Field Communicator, including part numbers, descriptions, and quantities for items such as a getting started guide, USB drive, power supply, stylus, hand strap, lead set, carrying case, and rubber boot.</p>
	<p><a href="#">YITAHOME Coffee Table Assembly Instructions - Model FTLFCT-0022</a></p> <p>Step-by-step assembly guide for the YITAHOME Coffee Table, model FTLFCT-0022. Includes a comprehensive parts list, clear instructions with textual descriptions of diagrams, and contact information for customer support.</p>