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GeekPi DP-0054

GeekPi DeskPi RackMate TT Mini Server Cabinet Instruction Manual

Model: DP-0054

Brand: GeekPi

1. INTRODUCTION

The GeekPi DeskPi RackMate TT is a compact and versatile server cabinet designed for efficient space utilization and device management. It is suitable for various applications including home labs, small offices, and development or storage scenarios. Its open design facilitates easy access, installation, and maintenance of internal devices, while promoting optimal cooling. The translucent acrylic side panels offer dust resistance, reduced weight, and allow for direct observation of the interior, with an option to add ambient lighting for aesthetic purposes.

The DeskPi RackMate TT supports both vertical and horizontal placement, adapting to different setup requirements. When placed vertically, it can accommodate four to five mini PCs or similar mini devices. In horizontal orientation, by swapping the handle and rubber feet positions, it can house three layers of 1U devices, functioning as a 10-inch 3U server rack. It is compatible with accessories from DeskPi RackMate T0/T1 models.

2. SETUP AND ASSEMBLY

The DeskPi RackMate TT arrives flat-packed and includes all necessary hardware and tools for assembly. Follow these steps for proper installation:

2.1 Unboxing and Component Identification

Carefully open the packaging. All hardware and parts are organized in trays to prevent rattling during transit. The package includes acrylic panels, metal frames, handles, rubber feet, various screws, and assembly tools (screwdrivers).

2.2 Preparing Acrylic Panels

The translucent acrylic panels come with a protective paper film. Gently peel off this film from both sides of each acrylic piece before assembly. This protects against scuffing or scratching during shipping.

2.3 Assembling the Main Frame

1. Identify the metal frame pieces. Note that some screws are pre-inserted at an angle in the corners of the main frame pieces. The extruder pieces (vertical supports) also have corresponding angled threaded inserts.
2. Attach two extruder pieces to one of the main frame pieces. Ensure the flat side of the extruder piece is aligned correctly. Do not fully tighten the screws at this stage; leave a little slack to allow for adjustments.
3. Repeat the process for the remaining two extruder pieces and the second main frame piece.
4. Once all four extruder pieces are loosely attached to one main frame piece, you can begin inserting the acrylic side panels.

2.4 Installing Acrylic Side Panels

The extruder pieces have small grooves on their short and long sides. These grooves are designed to hold the acrylic panels.

1. Take one acrylic side panel and carefully slide it down into the grooves of two opposing extruder pieces.
2. Once the first panel is in place, repeat for the second acrylic side panel on the opposite side.
3. With both side panels inserted, you can now tighten the screws on the main frame pieces. Tighten them gradually in a cross-pattern (like tightening a car tire) to ensure even pressure and proper alignment. This pressure will secure the acrylic panels in place.

2.5 Finalizing the Assembly

1. Attach the top and bottom acrylic plates (or side plates, depending on orientation) to the assembled frame. These plates also slide into grooves.
2. Secure the handles to the top of the frame using the provided screws.
3. Attach the rubber feet to the bottom of the frame. These feet prevent scuffing and scratching of surfaces.

INSTALLATION STEPS

Step 1



Step 2



Step 3



Step 4



Step 5



Step 6



Step 7



Figure 1: Visual guide for the installation steps.

Your browser does not support the video tag. Please refer to the text instructions.

Video 1: Official assembly guide for the GeekPi DeskPi RackMate TT.

3. OPERATING MODES AND DEVICE INTEGRATION

The DeskPi RackMate TT offers flexible configuration options to suit your needs.

3.1 Vertical Mode

In its standard vertical orientation, the RackMate TT can hold four to five mini PCs or similar compact devices. This mode is ideal for maximizing vertical space on a desk or shelf.

Vertical Mode

Supports both horizontal and vertical placement to adapt to different scenario needs. When placed vertically, it can hold four to five devices.



Horizontal Mode

By swapping the handle and foot pad positions, the rack can be placed horizontally, accommodating three layers of 1U devices inside. The front and rear spaces can be used collaboratively, enhancing the flexibility of device arrangement.

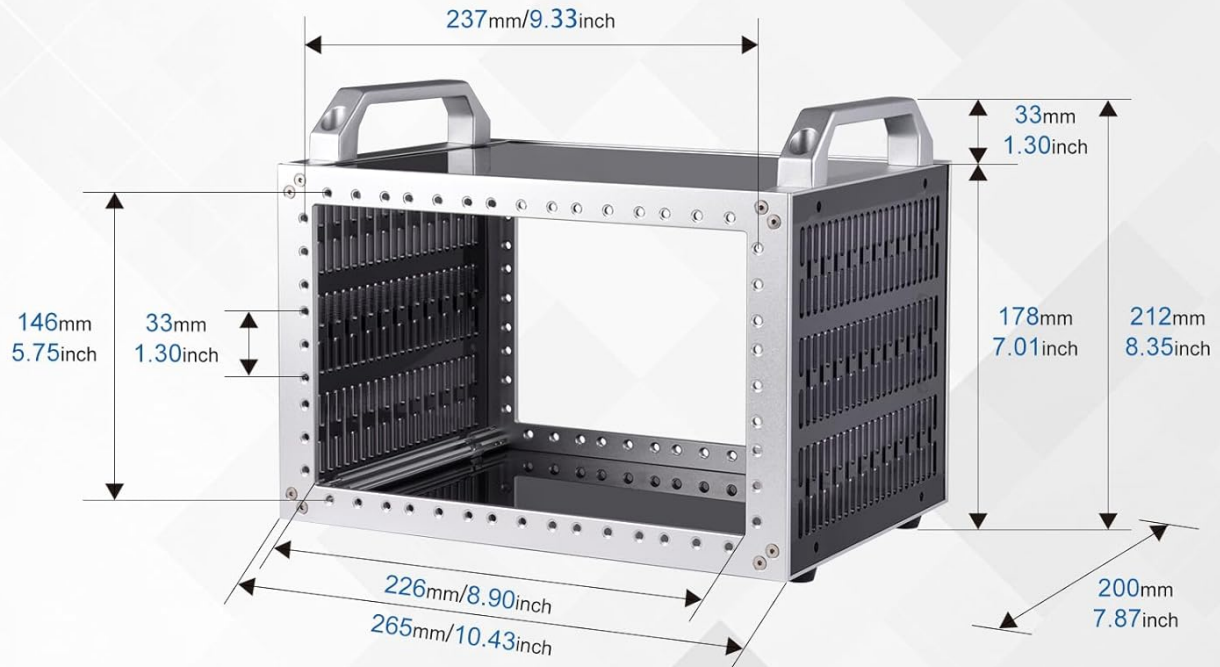


Figure 2: The RackMate TT configured in vertical mode, accommodating multiple mini devices.

3.2 Horizontal Mode

To use the cabinet horizontally, simply swap the positions of the handles and the rubber feet. This reconfigures the unit into a 10-inch 3U server rack, capable of accommodating three layers of 1U devices. This mode allows for collaborative use of front and rear spaces, enhancing device arrangement flexibility.

PRODUCT SIZE



Horizontal

Figure 3: The RackMate TT configured in horizontal mode, showing dimensions and capacity for 1U devices.

3.3 Device Mounting

The internal shelves feature various screw holes for mounting different devices. You can mount items such as:

- **Raspberry Pi and Jetson Nano motherboards:** Use the provided 0.5U rack shelves. (Note: Copper pillars and screws for these specific boards are not included in the standard package.)
- **2.5-inch and 3.5-inch HDDs:** Dedicated mounting options are available on the shelves.
- **Mini PCs and network switches:** The versatile design allows for secure placement of various compact devices.

For Raspberry Pi and Jetson Nano

0.5U Rack Shelf can be used to install Raspberry Pi and Jetson nano motherboard.
(copper pillars and screws are not included in the package)

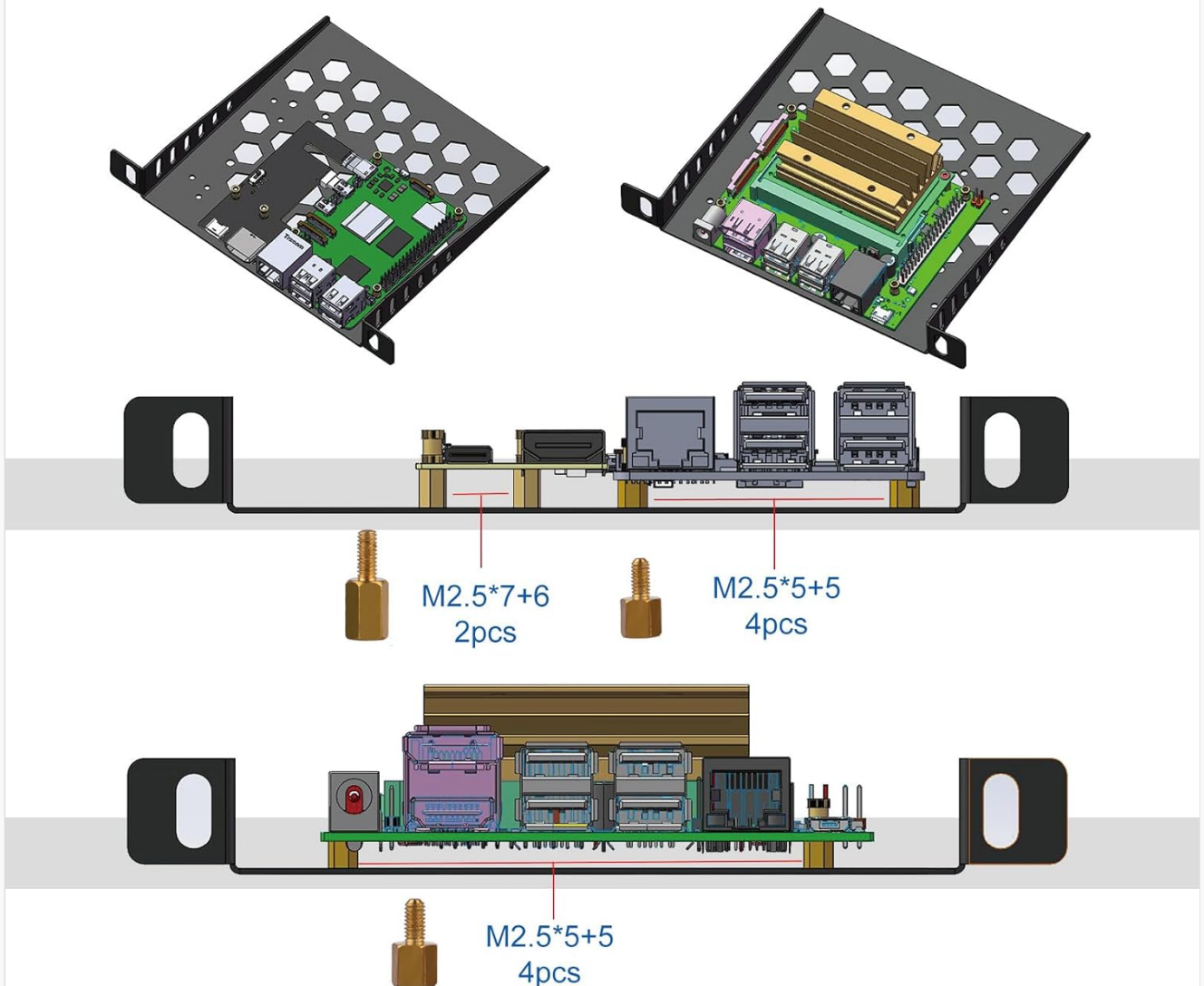


Figure 4: Illustration of mounting a Raspberry Pi or Jetson Nano on a 0.5U rack shelf.

2.5inch HDD and 3.5inch HDD



Figure 5: Examples of mounting 2.5-inch and 3.5-inch HDDs on the shelves.

3.4 Stacking and Side-by-Side Configuration

Multiple DeskPi RackMate TT units can be combined to expand your setup:

- **Vertical Stacking:** Two units can be stacked vertically to create a larger 10U 7-inch rack. Special stacking bolts (M3-0.5 screws) are provided to secure the units together, ensuring stability.
- **Horizontal Side-by-Side:** Units can also be placed side-by-side to create a wider rack solution.



Figure 6: Examples of stacking two RackMate TT units vertically (creating 6U) and placing them side-by-side in horizontal mode.

After removing the handle and foot pads, the size is further reduced for more space-saving and convenient compact installation or portability.

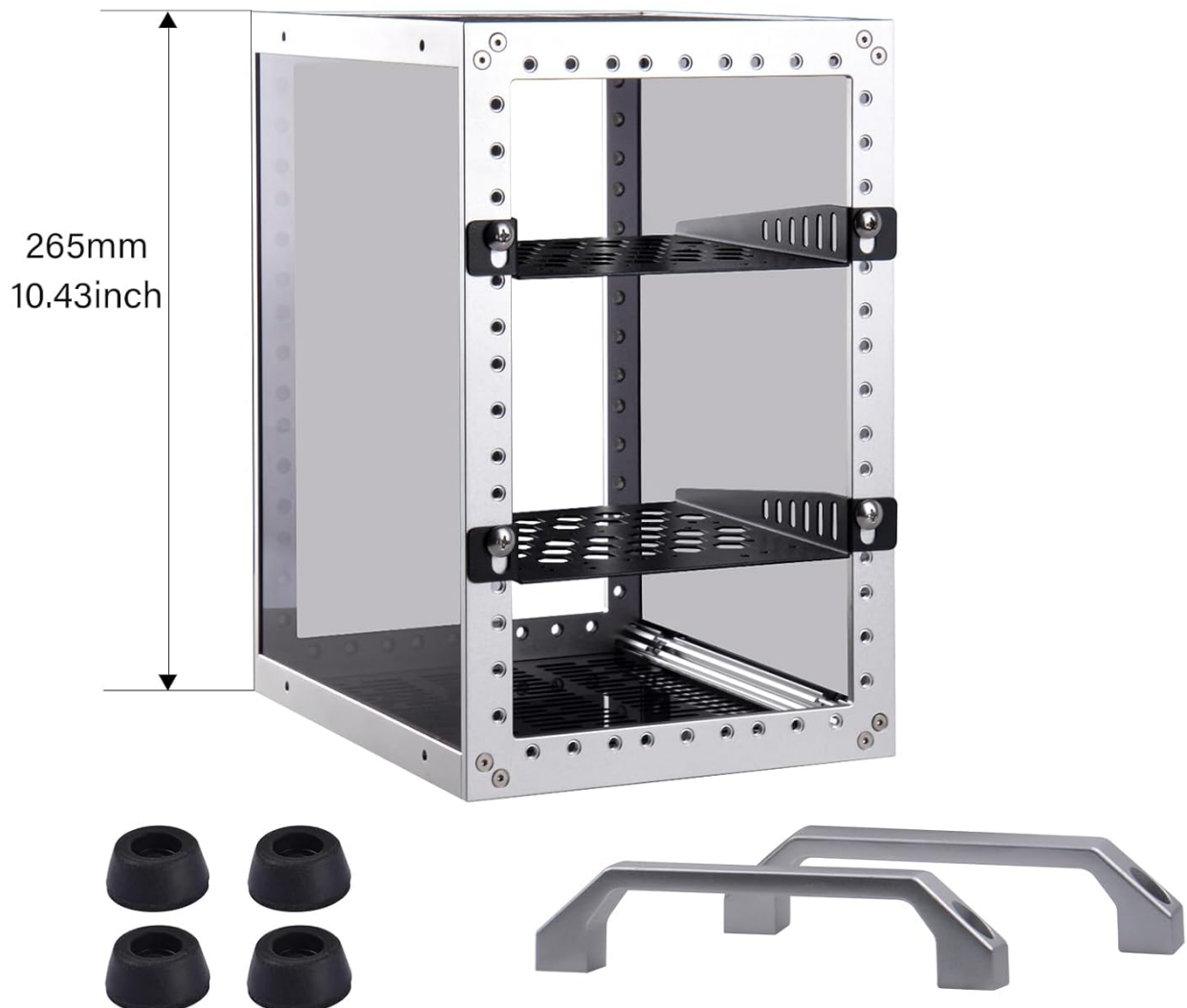


Figure 7: The RackMate TT with handles and rubber feet removed for a more compact installation or enhanced portability.

4. MAINTENANCE

To ensure the longevity and optimal appearance of your DeskPi RackMate TT, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, damp cloth to wipe down the acrylic panels and metal frame. Avoid abrasive cleaners or solvents, as these can damage the surfaces.
- **Dust Removal:** Periodically use compressed air or a soft brush to remove dust from inside the cabinet and around your devices to maintain good airflow.
- **Inspection:** Regularly check all screws and connections to ensure they remain tight. Re-tighten any loose fasteners as needed.

5. TROUBLESHOOTING

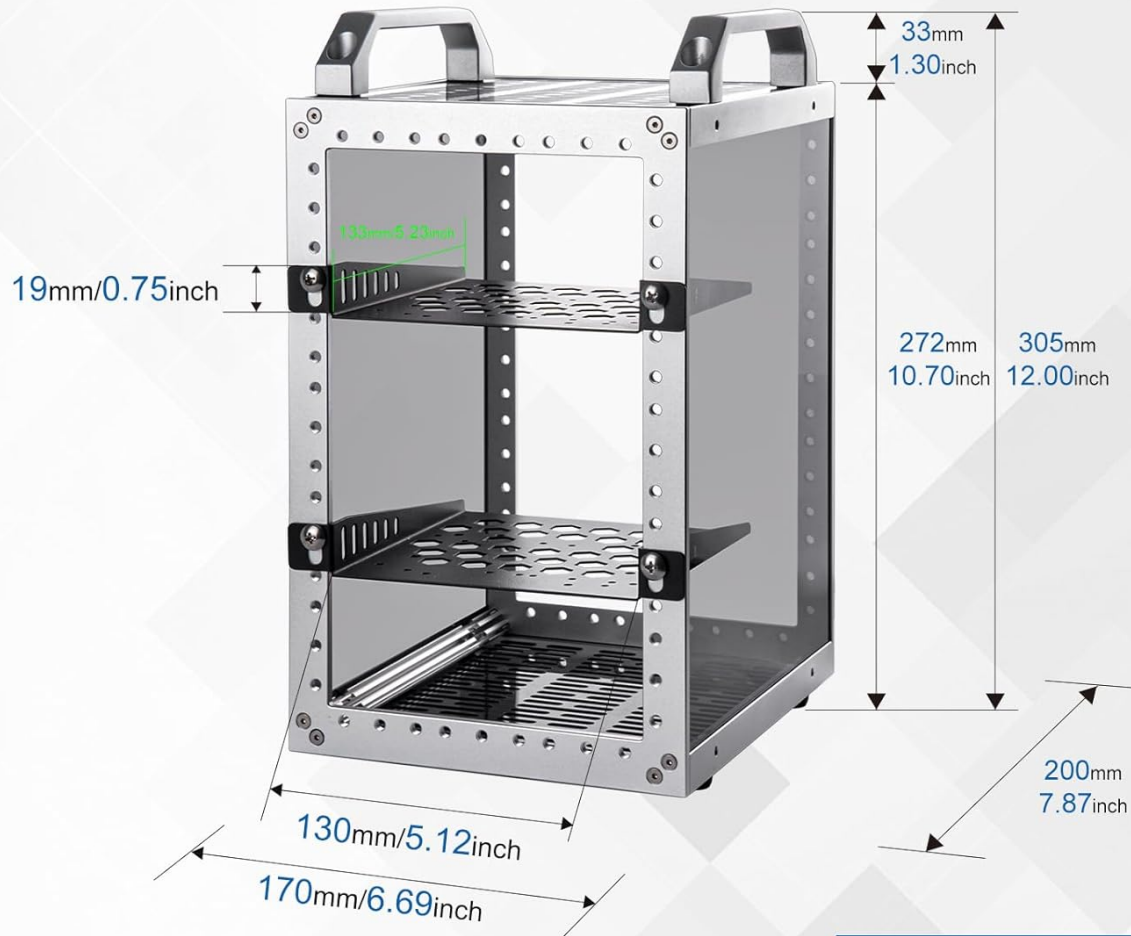
If you encounter any issues during assembly or use, refer to the following common solutions:

- **Difficulty aligning frame pieces:** Ensure all screws are only loosely tightened initially. This allows for slight movement and adjustment until all pieces are in place. Once aligned, tighten screws gradually in a diagonal pattern.
- **Acrylic panels not sliding smoothly:** Verify that the protective film has been completely removed from both sides of the acrylic. Ensure the grooves in the extruder pieces are clear of debris.
- **Rack feels unstable after assembly:** Double-check that all screws are fully tightened. Ensure the rubber feet are securely attached to the base.
- **Devices not fitting:** Refer to the product specifications for internal dimensions and compatibility. Ensure you are using the correct mounting shelves for your specific devices (e.g., 0.5U shelves for Raspberry Pi).

6. SPECIFICATIONS

Feature	Detail
Brand	GeeekPi
Model Number	DP-0054
Color	Silver
Material	Plastic (Acrylic panels)
Size (Vertical)	7-8.75" x 10" x 5.25" (approx. 170mm x 200mm x 305mm)
Item Weight	1.96 Kilograms
Mounting Type	Tabletop
Assembly Required	Yes
Compatible Devices	CPU, Server (Mini PCs, Raspberry Pi, Jetson Nano, 2.5/3.5 inch HDDs)

PRODUCT SIZE



Vertical

Figure 8: Detailed product dimensions for vertical configuration.

7. WARRANTY

The GeekPi DeskPi RackMate TT Mini Server Cabinet comes with a **6-month warranty** from the date of purchase. This warranty covers manufacturing defects and material flaws under normal use. Please retain your proof of purchase for warranty claims.

8. SUPPORT

For further assistance, technical support, or inquiries regarding your GeekPi DeskPi RackMate TT, please visit the official GeekPi store or contact customer service through the platform where you purchased the product.

Official Brand Store: GeekPi Store on Amazon

