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MICRO CONNECTORS SCW-114PC

Micro Connectors Assorted M2.5 Standoff Kit (SCW-114PC)

User Instruction Manual

1. Introduction

This manual provides instructions for the Micro Connectors 114-piece Assorted M2.5 Standoff Kit, Model SCW-114PC. This kit is designed to facilitate the mounting and stacking of circuit boards, particularly Raspberry Pi and other single board computers, using M2.5 threaded components. It includes a variety of standoffs, screws, and nuts to accommodate different assembly requirements.

2. Kit Contents

The Micro Connectors SCW-114PC kit contains the following components, organized in a clear storage case:

- 25 pcs M2.5 Nuts
- 25 pcs M2.5x6 Screws
- 8 pcs M2.5x6 Male-Female Standoffs
- 8 pcs M2.5x10 Male-Female Standoffs
- 8 pcs M2.5x15 Male-Female Standoffs
- 8 pcs M2.5x20 Male-Female Standoffs
- 8 pcs M2.5x6+6 Female-Female Standoffs
- 8 pcs M2.5x10+6 Female-Female Standoffs
- 8 pcs M2.5x15+6 Female-Female Standoffs
- 8 pcs M2.5x20+6 Female-Female Standoffs

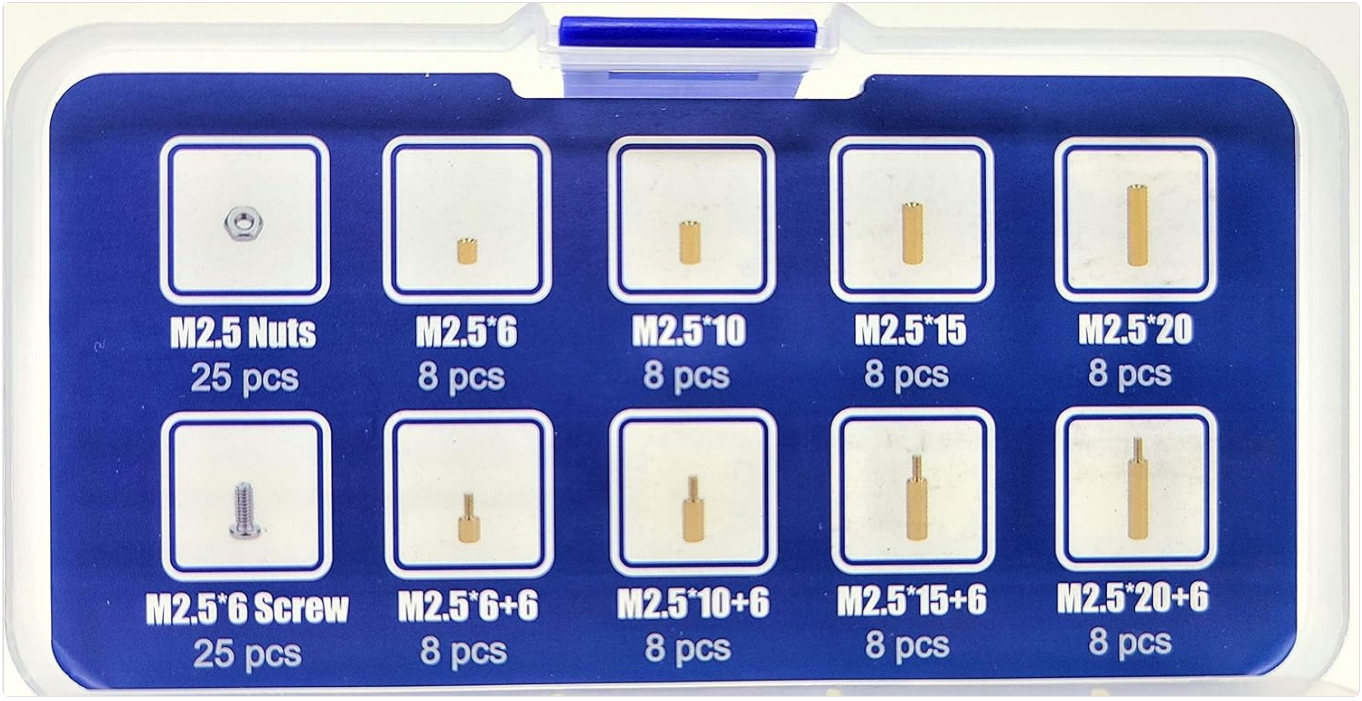


Figure 1: Packaging of the Micro Connectors M2.5 Standoff Kit, showing the various components and their quantities.



Figure 2: A view of the assorted M2.5 standoffs, screws, and nuts organized within the storage case.

3. Setup and Installation

This kit provides components for various mounting and stacking configurations. Ensure you select the correct length and type of standoff for your specific application.

3.1. Mounting a Single Board

1. Identify the mounting holes on your single board computer (e.g., Raspberry Pi).
2. Choose appropriate M2.5 screws and male-female standoffs.
3. Insert the M2.5 screws through the board's mounting holes from the top.
4. Thread the male end of the standoff onto the screw from the underside of the board. Tighten gently to secure the board.
5. Alternatively, use female-female standoffs with screws and nuts to secure the board to a chassis or base.

3.2. Stacking Multiple Boards (e.g., Pi HATs)

1. Mount the base board as described in Section 3.1, using male-female standoffs.
2. Align the second board (e.g., a HAT) over the male ends of the standoffs.
3. Secure the second board by threading M2.5 nuts onto the male ends of the standoffs.
4. For additional layers, use longer male-female standoffs or combine female-female standoffs with screws and nuts to achieve the desired height.

Note: Always ensure components are aligned correctly before tightening to prevent cross-threading or damage. Do not overtighten.

4. Usage Guidelines

The M2.5 standoffs, screws, and nuts are designed for precision electronic applications. They are suitable for:

- Mounting Raspberry Pi boards to cases or other surfaces.
- Stacking Raspberry Pi HATs or other expansion boards.
- Creating custom enclosures or mounting solutions for small electronic projects.
- Providing mechanical support and electrical isolation between components.

Always verify the thread size of your components (M2.5) to ensure compatibility with this kit.

5. Maintenance

This standoff kit requires minimal maintenance. To ensure longevity and proper function:

- **Storage:** Keep components organized in the provided case to prevent loss and mixing with other sizes. Store in a dry environment to prevent corrosion.
- **Cleaning:** If components become dirty, wipe them with a dry, lint-free cloth. Avoid using harsh chemicals or abrasive materials.
- **Inspection:** Periodically inspect threads for any damage or wear, especially if components are frequently reused.

6. Troubleshooting

If you encounter issues during assembly, consider the following:

- **Component Mismatch:** Ensure all components (screws, nuts, standoffs) are M2.5 size. Attempting to force incompatible sizes can damage threads.
- **Loose Connections:** If a component feels loose after tightening, check for stripped threads on either the screw or standoff. Replace damaged parts.
- **Incorrect Length:** If boards are not stacking correctly or there is insufficient clearance, verify that the chosen standoff lengths are appropriate for your application.
- **Cross-threading:** If a screw or standoff is difficult to thread, it may be cross-threaded. Unscrew, realign, and try again, ensuring components are straight.

7. Specifications

Feature	Detail
Model	SCW-114PC
Thread Size	M2.5

Feature	Detail
Number of Pieces	114
Material	Zinc (Exterior Finish)
Item Weight	0.27 g
Item Dimensions (L x W x H)	7 x 4 x 1 inches
Compatible Devices	Raspberry Pi, Single Board Computers

8. Warranty Information

This Micro Connectors product comes with a **Lifetime Warranty**. For details regarding warranty claims or service, please refer to the manufacturer's official website or contact their customer support.

9. Support

For further assistance, technical support, or product inquiries, please visit the official Micro Connectors website or contact their customer service department.
Micro Connectors Official Website: www.microconnectors.com

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