

## Fancasee US-CAB-81

# Fancasee 1 to 10 Way Fan Hub Splitter Extension Cable User Manual

Model: US-CAB-81 | Brand: Fancasee

## 1. INTRODUCTION

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This manual provides comprehensive instructions for the installation, operation, and maintenance of your Fancasee 1 to 10 Way Fan Hub Splitter Extension Cable. This device is designed to efficiently power and manage multiple 4-pin and 3-pin PC case cooling fans from a single motherboard PWM header and a SATA power connection, enhancing the cooling capabilities of your desktop computer case.

## 2. PRODUCT OVERVIEW

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The Fancasee 1 to 10 Way Fan Hub Splitter is a compact solution for expanding your system's fan connectivity. It allows up to ten PC case fans to be powered via a single 15-pin SATA power cable and controlled by a single PWM signal from your motherboard. This hub is compatible with both 4-pin and 3-pin fans, providing centralized control and power distribution.



Image 2.1: The Fancasee 1 to 10 Way Fan Hub Splitter, showcasing its multiple fan headers and SATA power input.

Key features include:

- Supports up to 10 PC case fans (4-pin or 3-pin).
- Powered by a standard 15-pin SATA power connector for stable power delivery.
- PWM interface connects to the motherboard's CPU\_FAN port for centralized speed control.
- Offers greater flexibility for fan placement within the PC case.
- Includes self-adhesive backing for secure mounting.

### 3. PACKAGE CONTENTS

Please verify that all items are present in your package:

- 1 x Fancasee 1 to 10 Way PC Case Fan Hub
- 1 x PWM cable (used to connect the hub's PWM interface with the CPU\_FAN port on the motherboard)

## What's in the Package?

- 1 10 ports PC case fan hub
- 2 PWM cable(used to connect PWM interface with CPU\_FAN port on the motherboard)

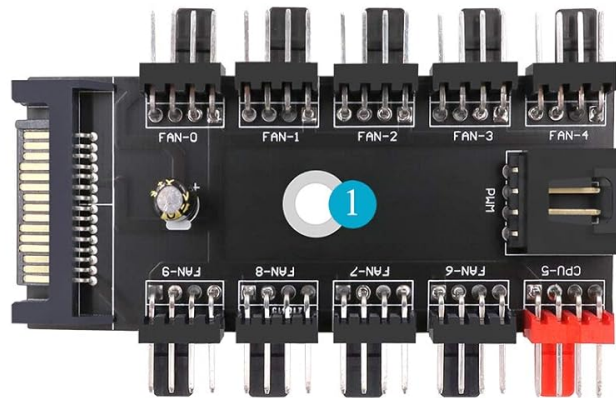


Image 3.1: Contents of the Fancasee Fan Hub package, showing the hub and the included PWM cable.

## 4. SETUP INSTRUCTIONS

Follow these steps to install the Fancasee Fan Hub Splitter in your computer case:

1. **Mount the Hub:** Choose a suitable location within your PC case. The hub features a self-adhesive backing for secure mounting. Ensure the chosen surface is clean and dry before attaching.

## Self-adhesive On the Reverse Side



Image 4.1: The reverse side of the fan hub, showing the self-adhesive backing for mounting.

2. **Connect SATA Power:** Connect a 15-pin SATA power cable from your power supply unit (PSU) to the 15-pin SATA power supply interface on the fan hub. This connection provides power to all connected fans.

## 15-Pin SATA Power Supply Interface

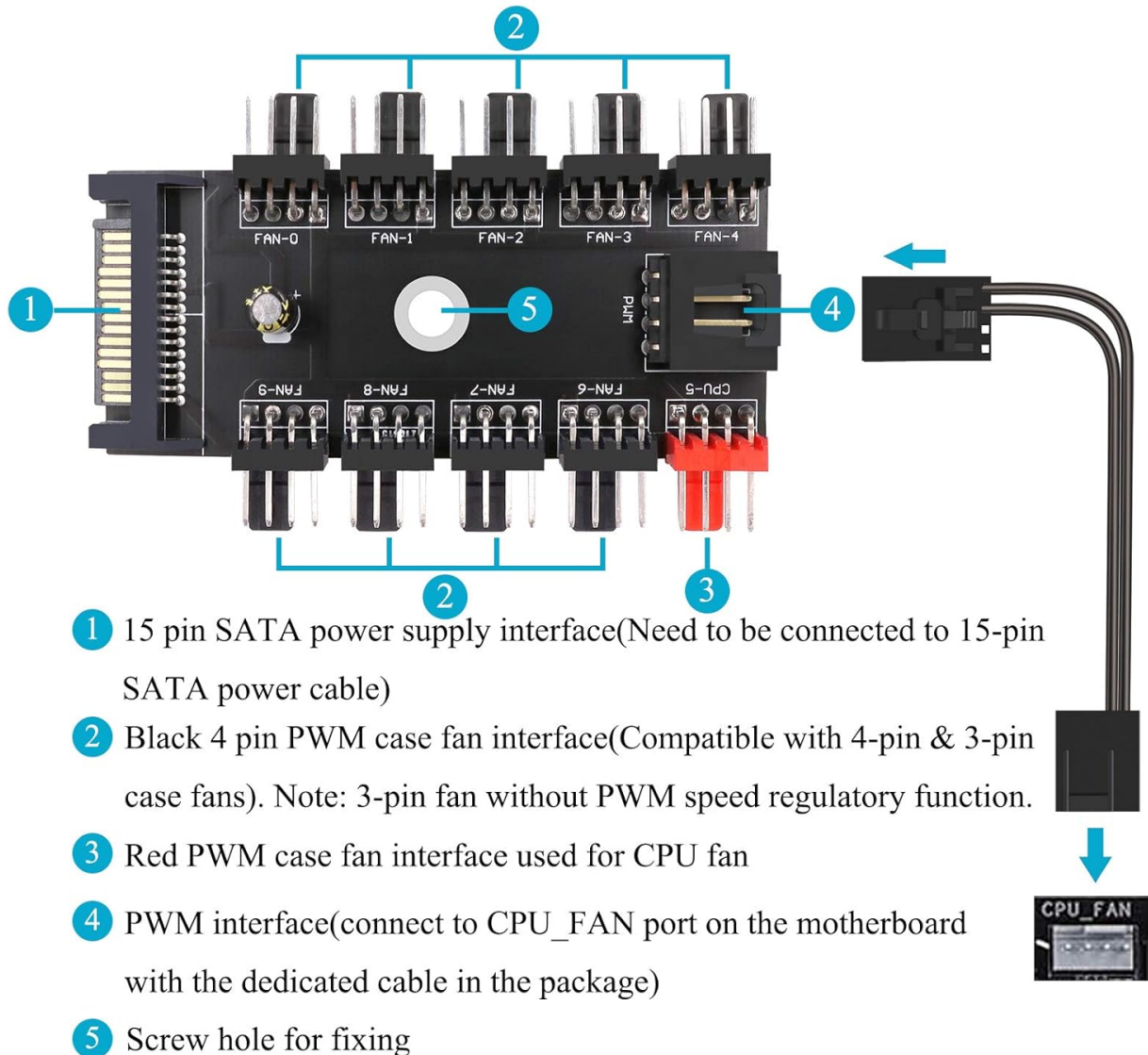
Need to be connected to 15-pin SATA power supply cable.



Image 4.2: Close-up of the 15-pin SATA power supply interface on the fan hub, where the PSU cable connects.

- 3. Connect PWM Control Cable:** Use the dedicated PWM cable included in the package. Connect one end to the red PWM interface on the fan hub (labeled "CPU-FAN" or similar) and the other end to the CPU\_FAN port on your motherboard. This connection allows the motherboard to control the speed of the fans connected to the hub.
- 4. Connect PC Case Fans:** Connect your 4-pin or 3-pin PC case fans to the available fan interfaces on the hub (labeled "FAN-0" through "FAN-9"). It is recommended to connect the primary CPU fan (if using the hub for it) to the red PWM interface for optimal speed control. Note that 3-pin fans will receive power but will not have PWM speed regulation functionality through this hub, running at a static speed determined by voltage.

# Instructions



- 1 15 pin SATA power supply interface(Need to be connected to 15-pin SATA power cable)
- 2 Black 4 pin PWM case fan interface(Compatible with 4-pin & 3-pin case fans). Note: 3-pin fan without PWM speed regulatory function.
- 3 Red PWM case fan interface used for CPU fan
- 4 PWM interface(connect to CPU\_FAN port on the motherboard with the dedicated cable in the package)
- 5 Screw hole for fixing

Image 4.3: Diagram illustrating the connection points on the fan hub: 15-pin SATA power, black 4-pin PWM case fan interfaces, red PWM case fan interface for CPU fan, and the PWM interface connection to the motherboard's CPU\_FAN port.

## 5. OPERATING INSTRUCTIONS

Once installed, the Fancasee Fan Hub operates by distributing power from the SATA connection and relaying PWM speed control signals from your motherboard. The fan speed will be regulated by your motherboard's BIOS settings or fan control software, typically based on CPU temperature or other system parameters.

- **PWM Control:** For 4-pin fans connected to the hub, their speed will be controlled synchronously by the PWM signal from the motherboard's CPU\_FAN header.
- **3-Pin Fan Operation:** 3-pin fans connected to the hub will receive constant power and will typically operate at their maximum speed, as they do not support PWM speed modulation.
- **BIOS/Software Settings:** Refer to your motherboard's manual for instructions on configuring fan speed curves and monitoring fan performance through BIOS settings or dedicated software.

## 6. MAINTENANCE

The Fancasee Fan Hub requires minimal maintenance. To ensure optimal performance and longevity:

- **Regular Inspection:** Periodically check all cable connections to ensure they are secure and free from damage.
- **Dust Removal:** If dust accumulates on the hub, gently clean it with a soft, dry cloth or compressed air. Ensure the computer is powered off and unplugged before cleaning.
- **Environmental Conditions:** Operate the hub within a standard PC case environment, avoiding excessive heat, humidity, or direct exposure to liquids.

## 7. TROUBLESHOOTING

If you encounter issues with your Fancasee Fan Hub, consider the following troubleshooting steps:

- **Fans Not Spinning:**
  - Ensure the 15-pin SATA power cable is securely connected from the PSU to the fan hub.
  - Verify that the PSU is providing power.
  - Check if individual fans are properly connected to the hub.
  - Test fans directly with a motherboard header to confirm they are functional.
- **No PWM Speed Control:**
  - Confirm that the PWM cable is correctly connected from the hub's red PWM interface to the motherboard's CPU\_FAN port.
  - Ensure that the fans you are trying to control are 4-pin PWM compatible fans. 3-pin fans do not support PWM speed control.
  - Check your motherboard's BIOS settings to ensure PWM control is enabled for the CPU\_FAN header and that a fan curve is configured.
  - Verify that the fan connected to the red PWM interface on the hub is a 4-pin fan, as this port is typically used to relay the RPM signal back to the motherboard.
- **Loose Connections:** Re-seat all cables (SATA power, PWM control, and fan cables) to ensure firm connections.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	US-CAB-81
Brand	Fancasee
Product Dimensions	3.94 x 1.97 x 0.39 inches
Item Weight	0.71 ounces
Connector Type	15 Pin SATA (Power), 4-Pin PWM (Control)
Cable Type	SATA
Compatible Devices	Desktop computer case fans, PC fans, CPU fans, cooling fans (4-pin and 3-pin)
Special Feature	15-Pin SATA Powered Desktop Computer Case Fan Splitter Cable Hub

## 9. WARRANTY AND SUPPORT

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Fancasee products are designed for reliability and performance. For warranty information or technical support, please refer to the Fancasee official website or contact their customer service directly. Keep your purchase receipt for warranty claims.

For further assistance, you may visit the [Fancasee Store on Amazon](#).