JOBVIBEOE-1PCS

Generic MKS 3MOS Plug-in 3-Fan Expansion Module User Manual

Model: JOBVIBEOE-1PCS

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Generic MKS 3MOS Plug-in 3-Fan Expansion Module. This module is designed to enhance the fan control capabilities of compatible 3D printer mainboards, offering three independent fan outputs. Please read this manual thoroughly before use to ensure proper functionality and safety.

2. Product Overview

The MKS 3MOS Plug-in 3-Fan Expansion Module is a compact accessory for 3D printer mainboards. It features three independent MOSFET-controlled fan outputs, allowing for precise control over multiple cooling fans. This module is compatible with Makerbase MKS Robin Nano V3, SGEN L V2, Monsre8, and GEN L mainboards.

Key Features:

- Three independent fan control channels.
- Plug-in design for easy integration.
- MOSFET-based switching for efficient fan control.
- Designed for various Makerbase 3D printer mainboards.

3. Safety Information

Always observe the following safety precautions:

- Ensure the 3D printer is powered off and disconnected from the power source before installing or removing the module.
- Handle the module by its edges to avoid touching electronic components.
- Verify correct polarity when connecting fans to prevent damage to the module or fans.
- Do not expose the module to moisture or extreme temperatures.

4. Package Contents

The package should contain the following item:

- 1 x Generic MKS 3MOS Plug-in 3-Fan Expansion Module

Inspect the module for any visible damage upon receipt. If any components are missing or damaged, contact your retailer.

5. Setup

Follow these steps to install the MKS 3MOS Plug-in 3-Fan Expansion Module:

1. **Power Off:** Disconnect your 3D printer from the main power supply.
2. **Locate Expansion Port:** Identify the designated expansion port on your compatible MKS mainboard (e.g., Robin Nano V3, SGEN L V2). Refer to your mainboard's manual for the exact location.
3. **Insert Module:** Carefully align the pins of the 3-Fan Expansion Module with the corresponding header pins on the mainboard's expansion port. Gently press down until the module is securely seated. Ensure all pins are correctly aligned to prevent bending or damage.

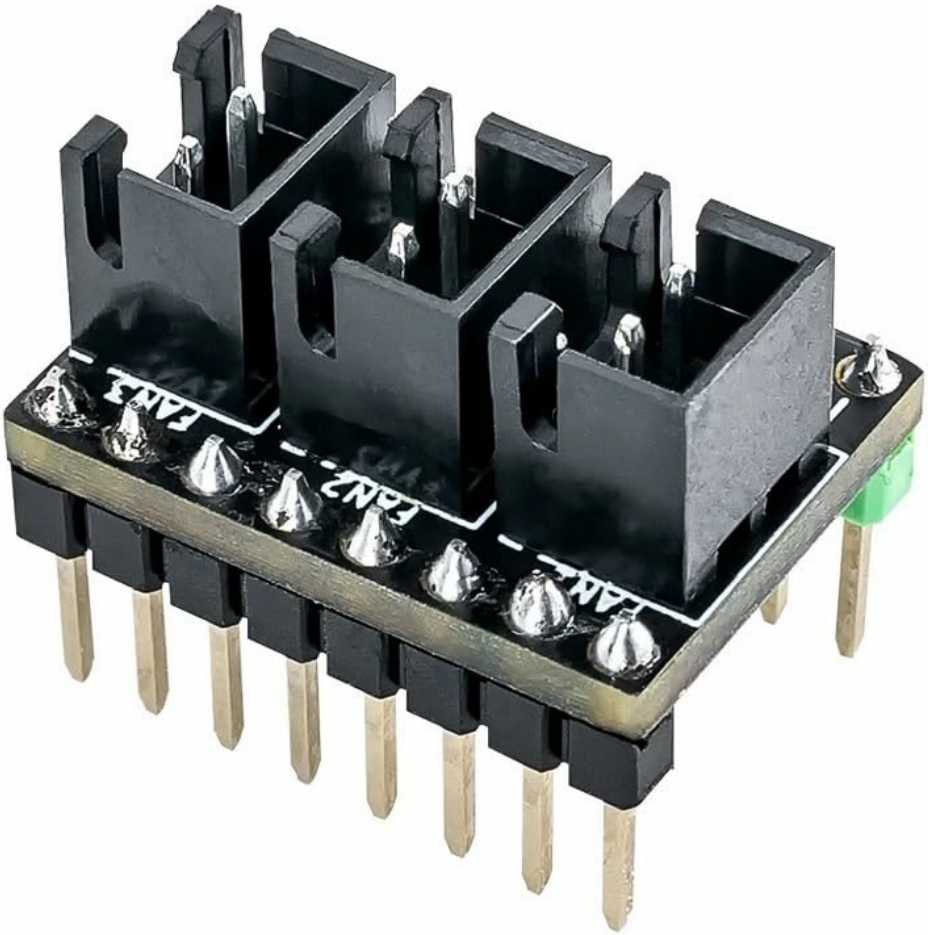


Figure 5.1: Front view of the MKS 3MOS Plug-in 3-Fan Expansion Module, showing the three fan headers labeled FAN1, FAN2, and FAN3.

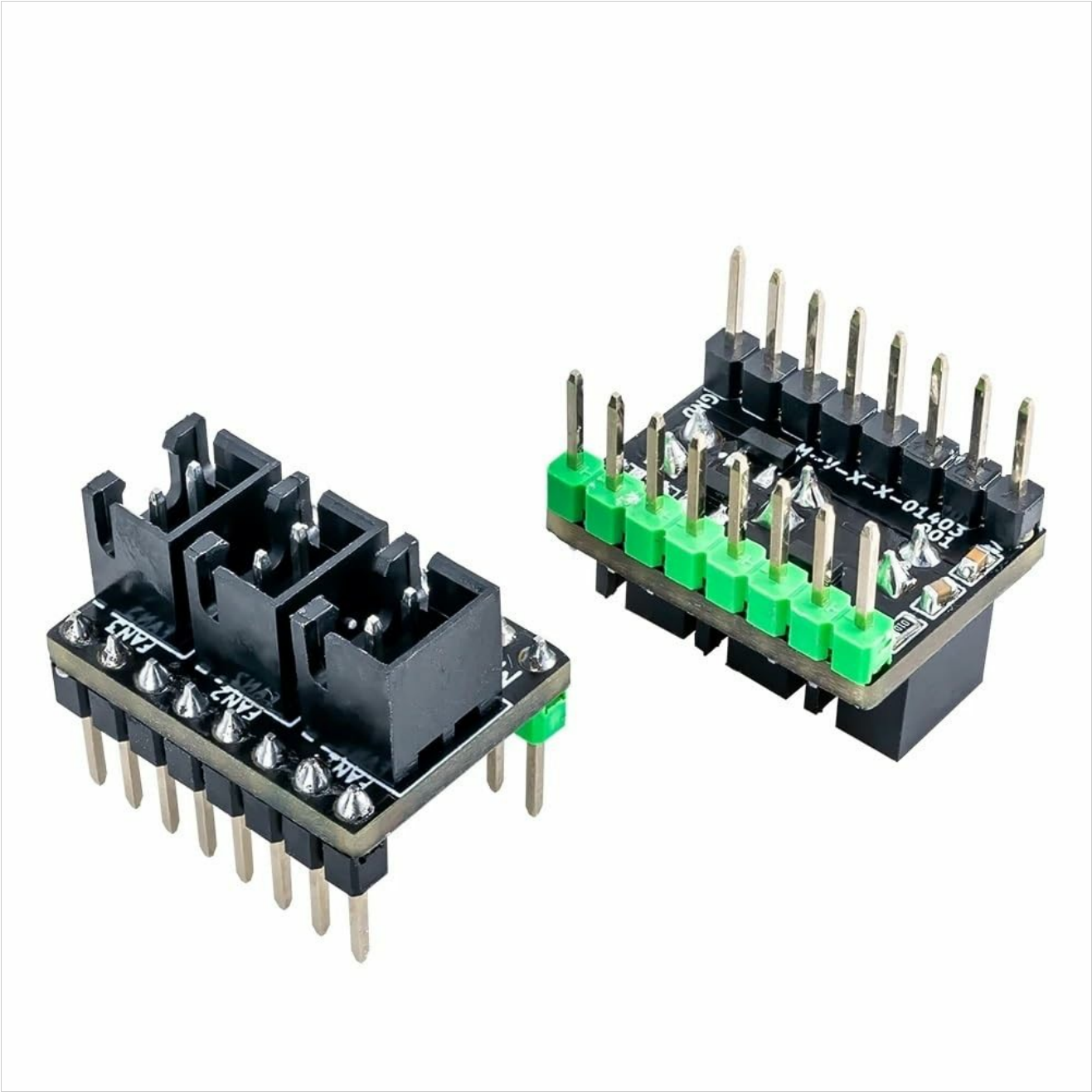


Figure 5.2: Two MKS 3MOS modules, one showing the fan headers and the other showing the pin connectors for the mainboard.

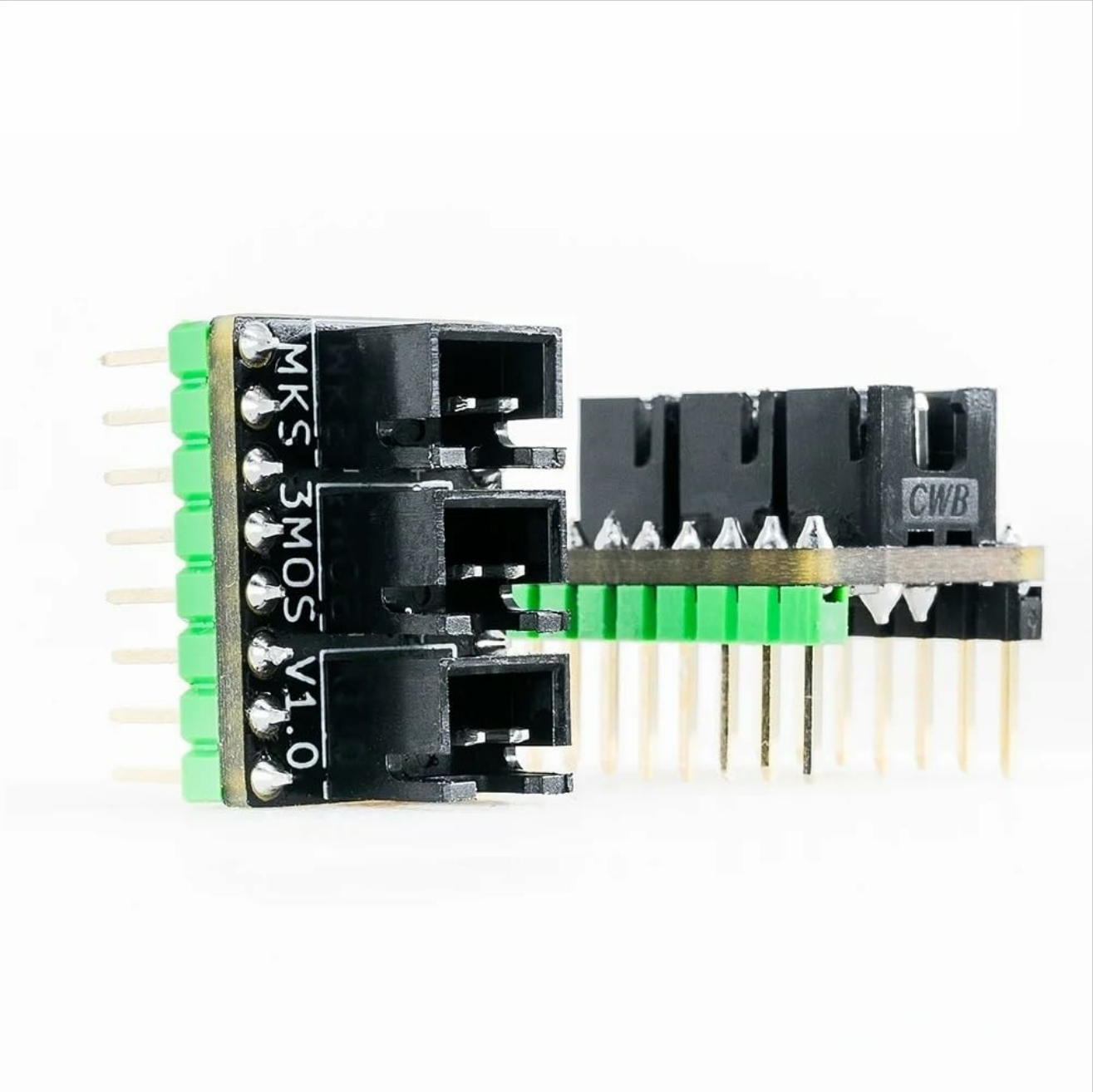


Figure 5.3: Side view illustrating the plug-in design of the MKS 3MOS module, highlighting the connection pins.

4. **Connect Fans:** Connect your 3D printer cooling fans to the FAN1, FAN2, and FAN3 headers on the module. Observe correct polarity (positive to positive, negative to negative).
5. **Firmware Configuration:** Depending on your 3D printer's firmware (e.g., Marlin, Klipper), you may need to configure the firmware to recognize and control the new fan outputs. Refer to your firmware's documentation for specific instructions on enabling and assigning fan pins.
6. **Power On:** Reconnect the 3D printer to the power supply and power it on.

6. Operating Instructions

Once installed and configured in your 3D printer's firmware, the fans connected to the MKS 3MOS module can be controlled via G-code commands or through your printer's LCD interface, if supported by your firmware.

Common G-code Commands for Fan Control:

- **M106 S[speed] P[fan_number]:** Sets the speed of a specific fan.[speed] is a value from 0 (off) to 255 (full speed). [fan_number] corresponds to the fan output (e.g., P0 for FAN1, P1 for FAN2, P2 for FAN3, depending

on firmware mapping).

- **M107 P[fan_number]:** Turns off a specific fan.

Consult your 3D printer's firmware documentation for the exact fan pin assignments and control methods.

7. Maintenance

The MKS 3MOS Plug-in 3-Fan Expansion Module requires minimal maintenance. Periodically inspect the module and its connections:

- **Visual Inspection:** Check for any loose connections, bent pins, or signs of overheating (discoloration).
- **Cleaning:** If dust accumulates, gently clean the module with a soft, dry brush or compressed air. Ensure the printer is powered off before cleaning.

8. Troubleshooting

If you encounter issues with the MKS 3MOS Plug-in 3-Fan Expansion Module, consider the following troubleshooting steps:

- **Fans Not Spinning:**
  - Verify that the fans are correctly connected to the module with proper polarity.
  - Check if the module is securely seated in the mainboard's expansion port.
  - Ensure the firmware is correctly configured for the fan outputs.
  - Test the fans directly to confirm they are functional.
- **Incorrect Fan Speed:**
  - Review your G-code commands or firmware settings for the fan speed values.
  - Confirm that the fan is rated for the voltage supplied by your 3D printer.
- **Module Not Detected:**
  - Ensure the module is fully inserted and all pins make contact.
  - Check your mainboard's documentation to confirm compatibility and proper expansion port usage.

9. Specifications

Item Type	Module
Origin	Mainland China
Model Number	JOBVIBEOE-1PCS
Package Dimensions	0.39 x 0.39 x 0.39 inches
Item Weight	1.76 ounces
Date First Available	September 28, 2025

10. Warranty and Support

For warranty claims, technical assistance, or further inquiries regarding the MKS 3MOS Plug-in 3-Fan Expansion

Module, please contact the retailer from whom you purchased the product. Provide your purchase details and model number (JOBVIBEOE-1PCS) when seeking support.