

Geekworm VBO-to-HDMI Adapter Board

Geekworm VBO-to-HDMI Adapter Board User Manual

Model: VBO-to-HDMI Adapter Board

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Geekworm VBO-to-HDMI Adapter Board. This board is designed to convert V-by-One signals to HDMI, enabling compatibility with a wide range of display devices.

2. PRODUCT FEATURES

- Designed to solve connection issues for electronic blackboards, large conference tablets, and 4K large screen simultaneous displays.
- Capable of illuminating the original 4K screen while adding a 4K HDMI signal output.
- Applicable in various fields including education systems, conference systems, commercial displays, matrix setups, advertising machines, and medical displays.
- Can be powered directly from the V-by-One input screen line, simplifying power management.

3. SETUP AND CONNECTIONS

Follow these steps to properly connect your VBO-to-HDMI Adapter Board:

1. **V-by-One Input Connection:** Connect the V-by-One signal source to the "V-by-One Input" port on the adapter board. This connection also provides power to the board.
2. **V-by-One Output Connection:** Connect the "V-by-One Output" port to your V-by-One display device.
3. **HDMI Output Connection:** Connect an HDMI cable from the "HDMI Output" port on the adapter board to your HDMI display device (e.g., monitor, TV, projector).
4. **Audio Input (Optional):** If audio conversion is required, connect your digital audio source to the "Digital Audio Input" or your analog audio source to the "Analog Audio Input" as appropriate.

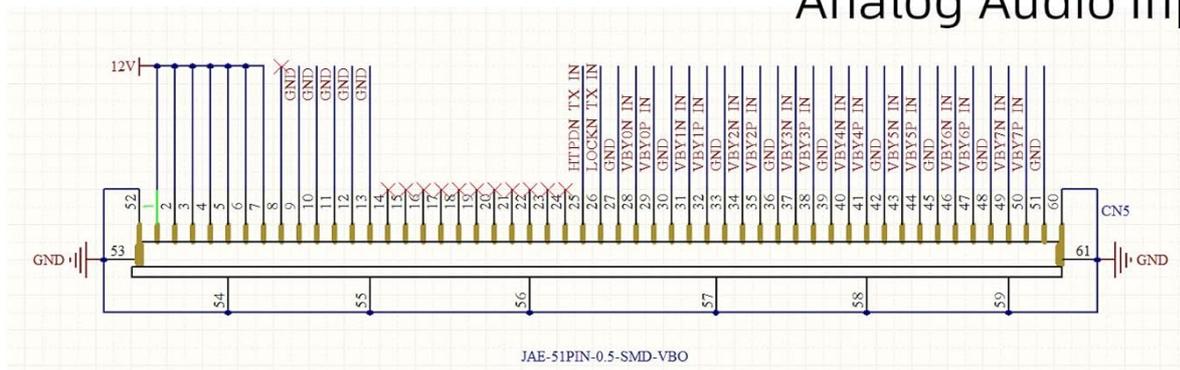
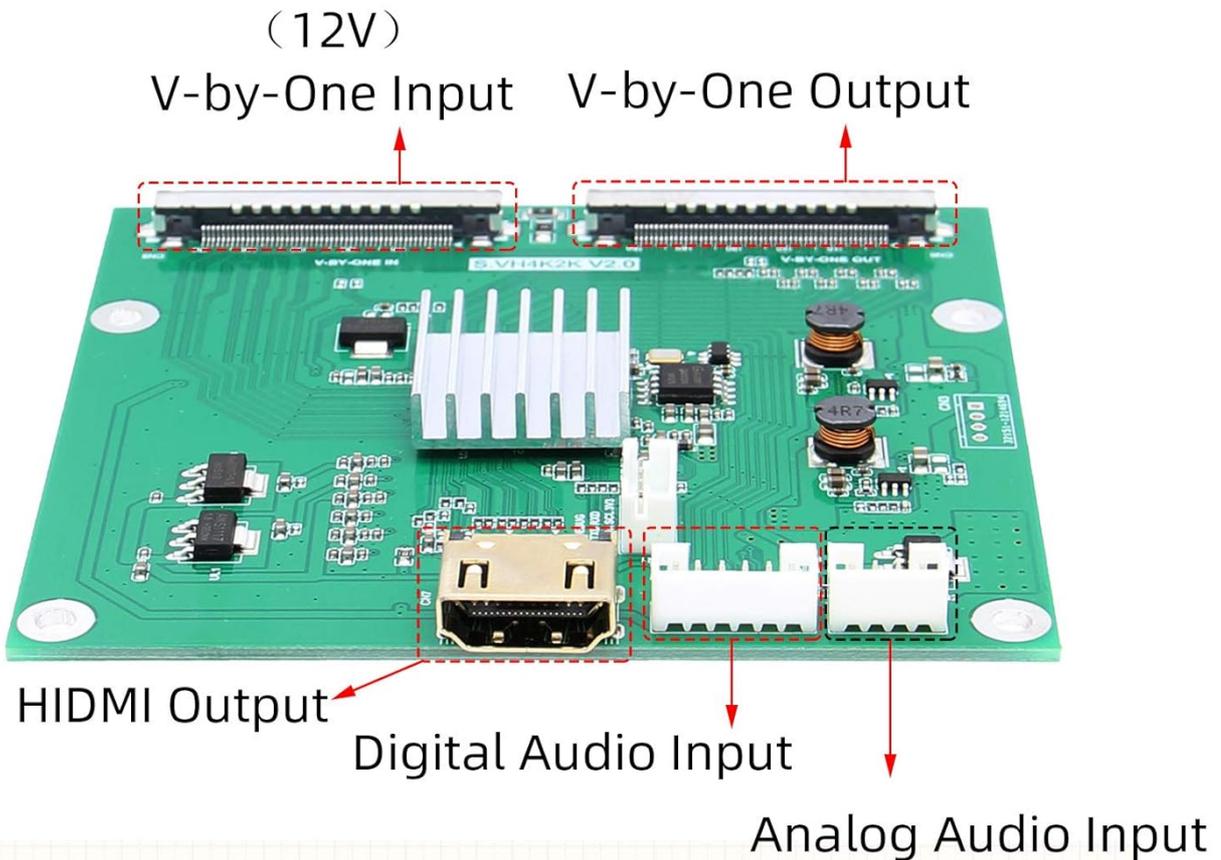


Figure 3.1: Overview of the Geekworm VBO-to-HDMI Adapter Board with labeled input and output ports. This image shows the V-by-One Input, V-by-One Output, HDMI Output, Digital Audio Input, and Analog Audio Input connectors.

Ensure all connections are secure before powering on your devices.

4. OPERATING INSTRUCTIONS

Once all connections are made as described in Section 3, the adapter board operates automatically:

- The board will receive power directly from the V-by-One input signal.
- It will convert the V-by-One signal to an HDMI signal.
- The HDMI output supports resolutions up to 4K, 2K, and 1080P, depending on the source and display capabilities.
- The V-by-One output will pass through the original signal to the V-by-One display.

No additional software or drivers are typically required for operation.

5. MAINTENANCE

To ensure the longevity and optimal performance of your adapter board, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe the surface of the board. Avoid using liquid cleaners or solvents.
- **Environment:** Keep the board in a dry, dust-free environment. Avoid exposure to extreme temperatures or humidity.
- **Handling:** Handle the board by its edges to avoid touching components. Do not apply excessive force to connectors.
- **Power:** Always disconnect power before making or changing connections.

6. TROUBLESHOOTING

If you encounter issues with your Geekworm VBO-to-HDMI Adapter Board, refer to the following common troubleshooting steps:

- **No Display on HDMI Output:**
 - Ensure all cables (V-by-One input, V-by-One output, HDMI output) are securely connected.
 - Verify that the V-by-One source is powered on and outputting a signal.
 - Check if your HDMI display is set to the correct input source.
 - Test with a different HDMI cable or display if possible.
- **No Audio Output:**
 - Confirm that the digital or analog audio input is correctly connected and the source is playing audio.
 - Check audio settings on your HDMI display and ensure volume is not muted.
- **Intermittent Signal:**
 - Inspect cables for damage.
 - Ensure connections are firm and not loose.
 - Verify that the power supply from the V-by-One input is stable.

7. SPECIFICATIONS

Brand	Geekworm
Manufacturer	Geekworm
Product Dimensions (LxWxH)	5.4 x 1.9 x 3.2 cm (2.13 x 0.75 x 1.26 inches)
Batteries Included	No
ASIN	B08XGMPHR2
First Available	6 March 2021

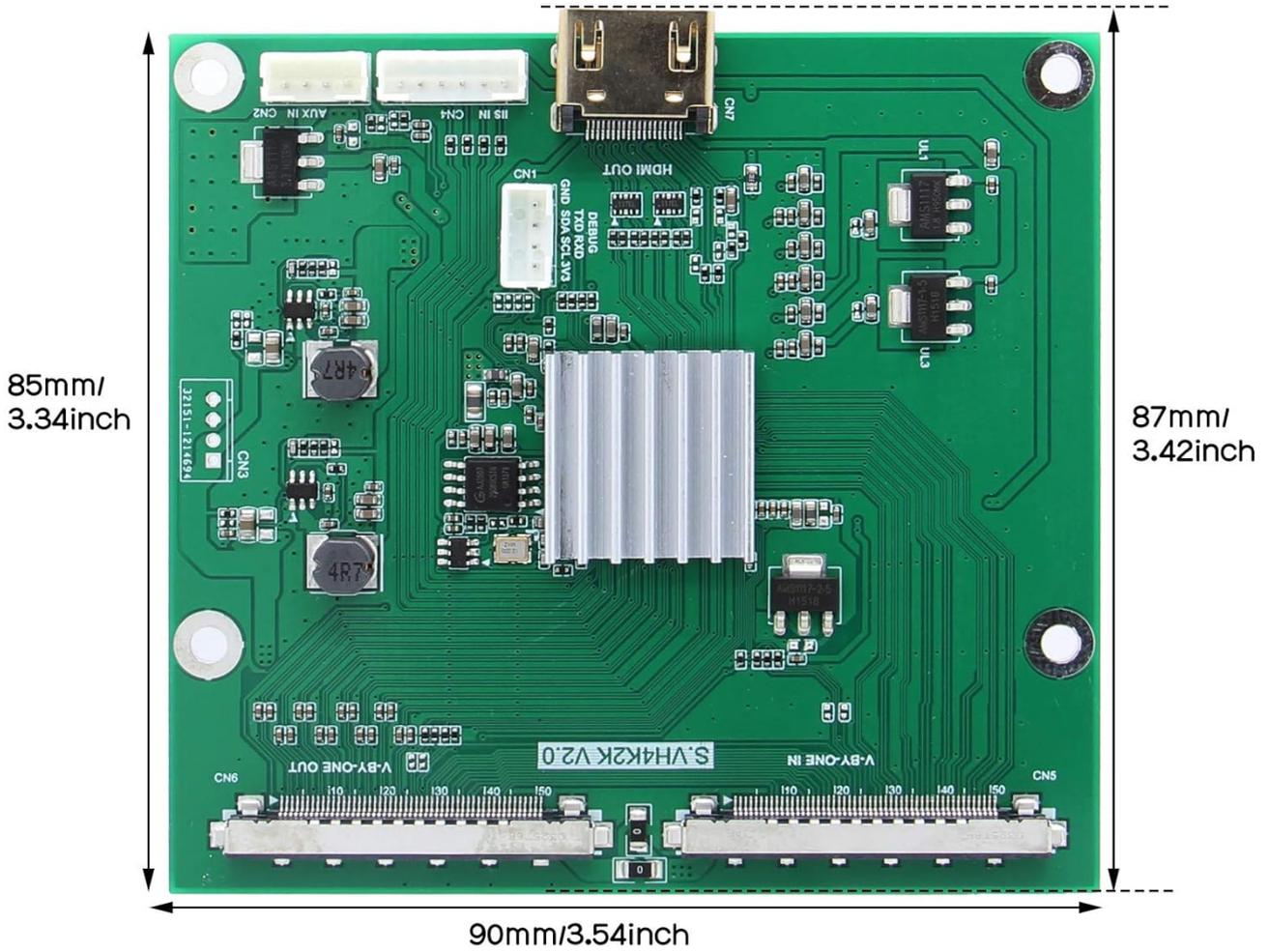


Figure 7.1: Dimensions of the Geekworm VBO-to-HDMI Adapter Board. The image indicates approximate overall dimensions of 90mm (3.54 inches) in width, 85mm (3.34 inches) in length, and 87mm (3.42 inches) in height.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please contact Geekworm directly through their official website or the retailer from whom you purchased the product. Keep your purchase receipt as proof of purchase.