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> VSDISPLAY 10.4-inch 1024x768 IPS LCD Screen with VS-N5V3.1H Audio LCD Controller Board User Manual

VSDISPLAY VS104T-004A with VS-N5V3.1H Board

VSDISPLAY 10.4-inch 1024x768 IPS LCD Screen with VS-N5V3.1H Audio LCD Controller Board User Manual

Model: VS104T-004A with VS-N5V3.1H Board

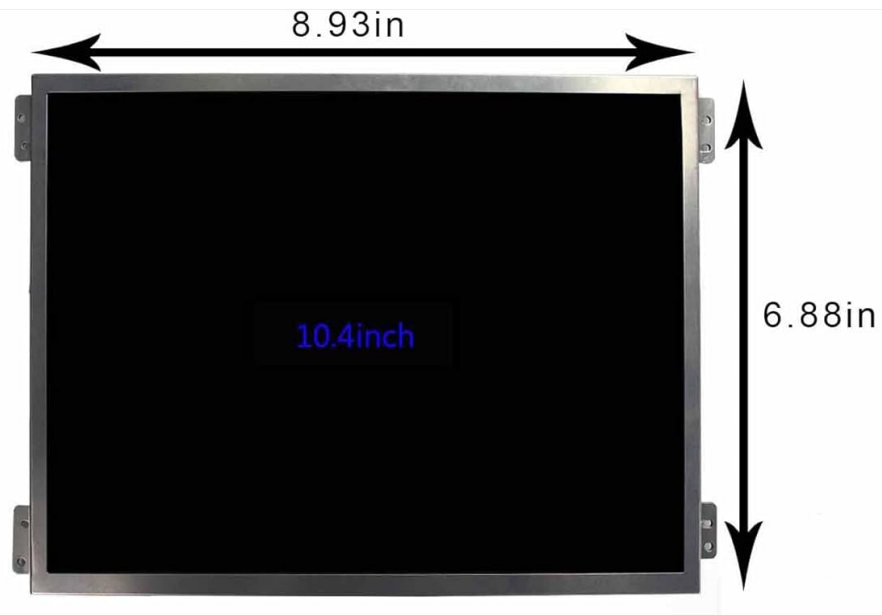
1. PRODUCT OVERVIEW

This manual provides instructions for the VSDISPLAY 10.4-inch 1024x768 IPS LCD Screen and its accompanying VS-N5V3.1H Audio LCD Controller Board. This kit is designed for various display applications requiring a compact, high-resolution screen with audio capabilities.

Package Contents:

- 1 × Audio LCD Controller Board (VS-N5V3.1H)
- 1 × 10.4-inch VS104T-004A 1024x768 LCD Screen
- 1 × Inverter Board
- 1 × LVDS Cable
- 1 × Keyboard with Cable

Note: A power adapter (12Vdc, more than 2A) is required but not included in the packing list.



Shipping list



Figure 1: LCD Screen Dimensions and Shipping List Components. The image displays the 10.4-inch LCD screen with dimensions 8.93 inches wide and 6.88 inches high. Below it are small images of the controller board, inverter board, LVDS cable, and keyboard cable, representing the included items.

2. SPECIFICATIONS

2.1 LCD Screen (VS104T-004A)

- **Display Mode:** IPS Pro, Normally Black, Transmissive
- **Resolution:** 1024 × 768 (XGA)
- **Outline Size:** 227.00 × 175.80 × 7 mm (H×V×D)
- **Display Area:** 210.43 × 157.824 mm (H×V)
- **Brightness:** 600 cd/m² (Typical)
- **Contrast Ratio:** 1000:1 (Typical)
- **Viewing Angle:** 80/80/80/80 (Typical) [Left / Right / Up / Down]
- **Signal Interface:** LVDS (1 channel, 8-bit), 30 pins Connector
- **Backlight:** WLED
- **Input Voltage (LCD):** 3.3V (Typical)
- **Refresh Rate:** 60 Hz
- **Response Time:** 5 Milliseconds

2.2 LCD Controller Board (VS-N5V3.1H)

- **Input Power Adapter:** 12Vdc, more than 2A (recommended)
- **Standby Mode:** <1W (when no signal input)
- **Video Input:** HDMI
- **Audio Input:** Supported
- **Audio Output:** Speaker, Earphone
- **OSD Functions:** Brightness, Contrast, Auto Adjustment, Language (English, French, German, Spanish, Italian, etc.)
- **Board Size:** 85mm x 54mm x 14mm

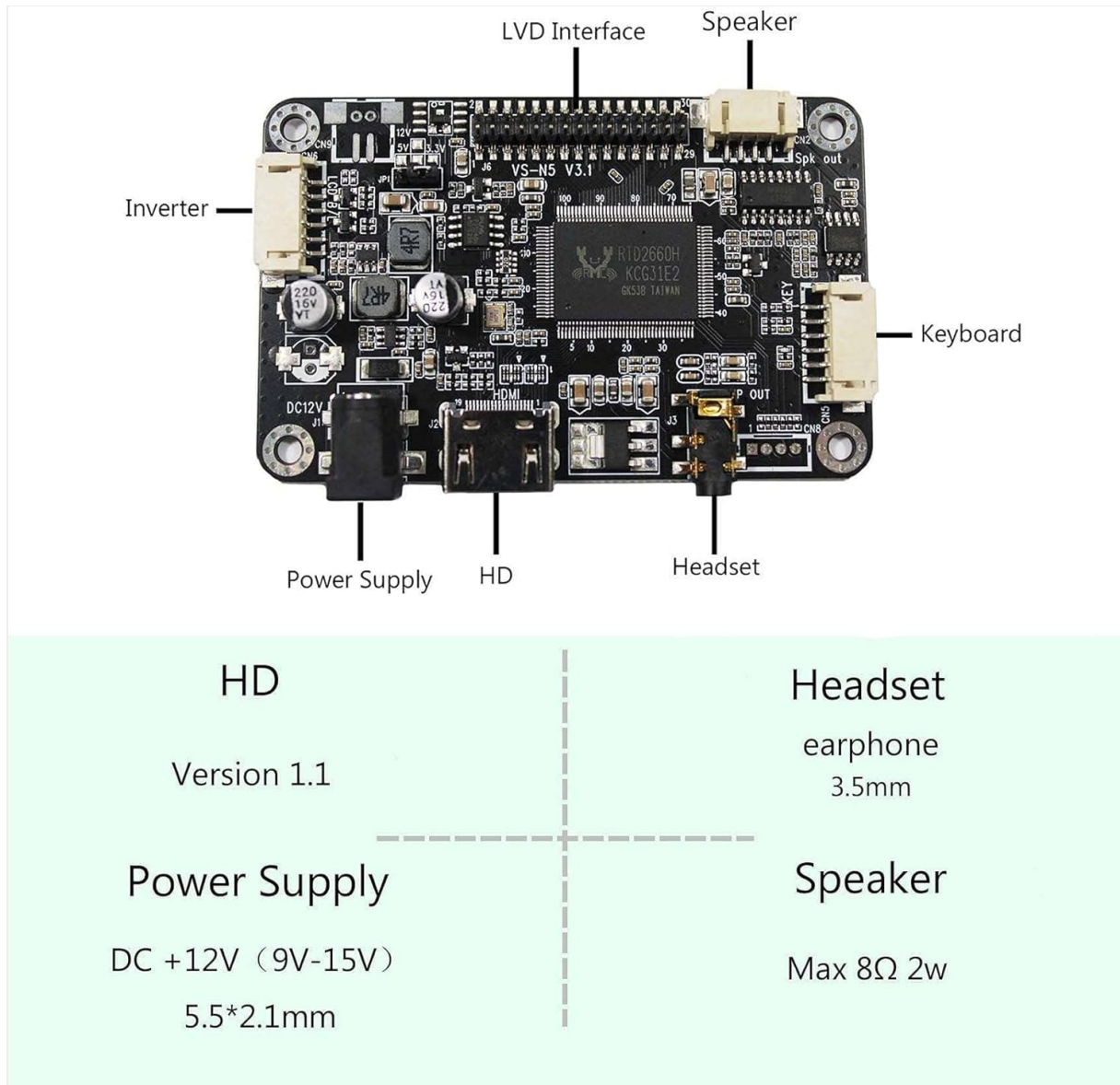


Figure 2: Controller Board Layout. This image highlights the various connection ports on the controller board, including LVDS Interface, Speaker, Inverter, Keyboard, Power Supply, HD (HDMI), and Headset.

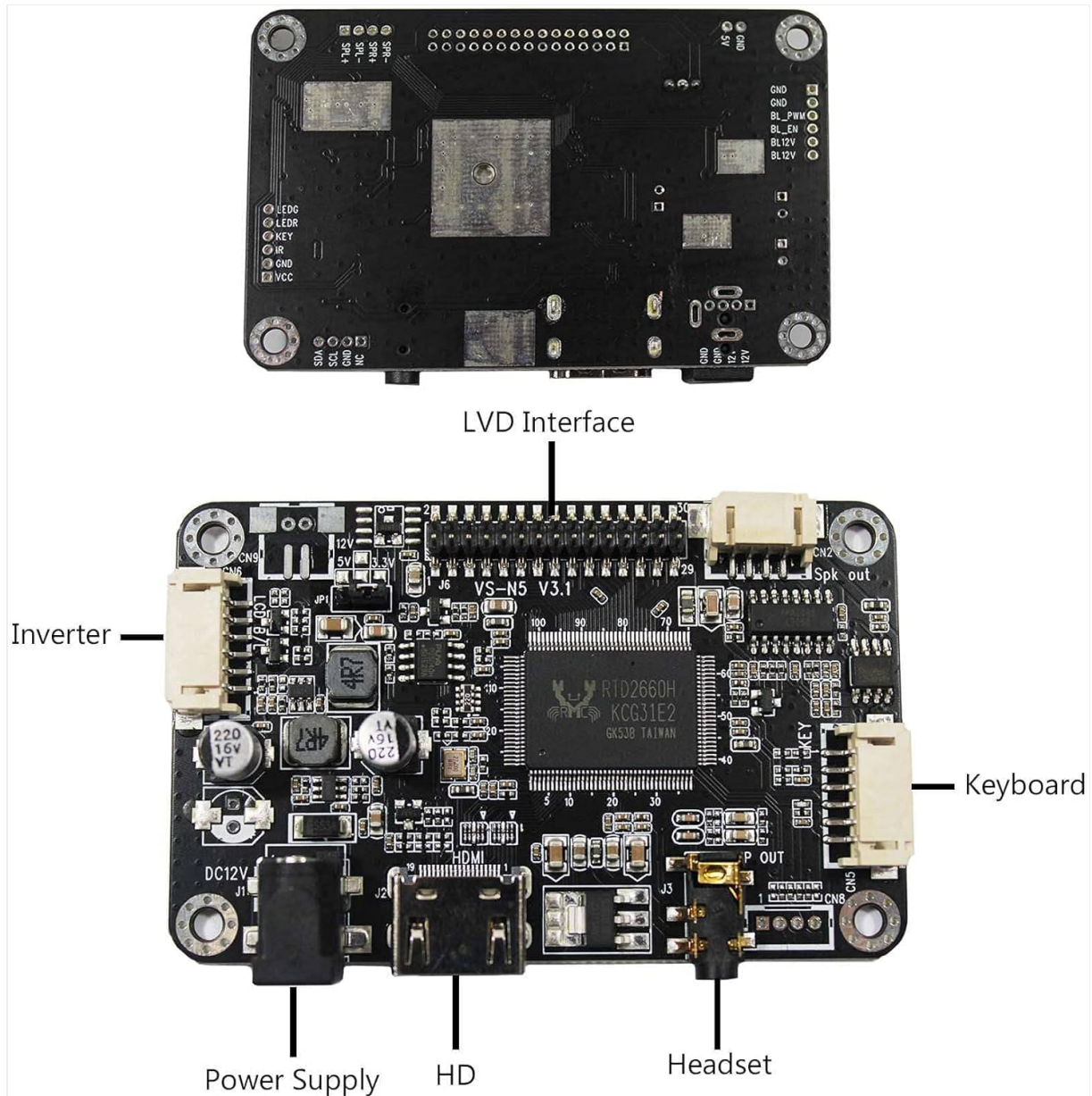


Figure 3: Controller Board Dimensions. This image provides the physical dimensions of the controller board, measuring 84mm in length and 54mm in width.

3. SETUP INSTRUCTIONS

Follow these steps to correctly assemble and connect your VSDISPLAY LCD screen and controller board. Ensure all connections are secure before applying power.

1. **Connect the Keyboard Cable:** Connect the keyboard cable to the designated keyboard port on the controller board.
2. **Connect the LVDS Cable to the Controller Board:** Carefully connect one end of the LVDS cable to the LVDS interface on the controller board. Ensure the circular dot on the cable connector aligns with the circular dot on the board's port.
3. **Connect the LVDS Cable to the LCD Screen:** Connect the other end of the LVDS cable to the LVDS input on the LCD screen. Again, ensure the circular dot on the cable connector aligns with the circular dot on the screen's port.
4. **Connect the Inverter Board:** Connect the inverter board to the backlight input on the LCD screen.
5. **Connect the Inverter Cable to the Controller Board:** Connect the cable from the inverter board to the inverter port on the controller board.

6. **Connect Power and Video Source:** Connect a 12Vdc, >2A power adapter to the controller board's power input. Connect your video source (e.g., HDMI) to the HD port on the controller board.

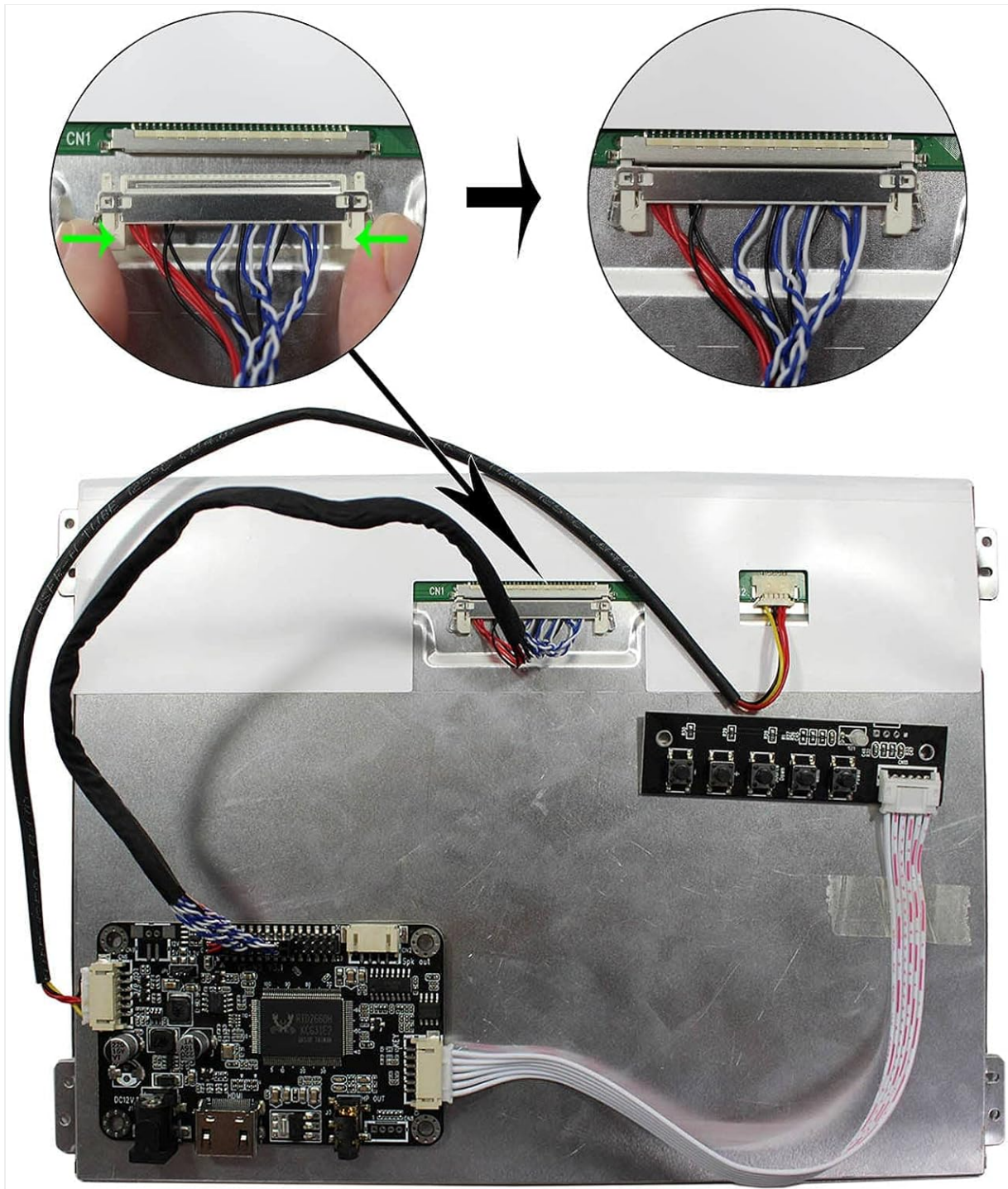


Figure 4: LVDS Cable Connection to LCD Screen. This image demonstrates the correct method for connecting the LVDS cable to the LCD panel, emphasizing the importance of aligning the marked dots on both the cable and the connector for proper installation.

Video 1: Connection Guide for 10.4-inch IPS LCD with HD-MI Board. This video provides a visual step-by-step guide on how to connect the various components of the VSDISPLAY 10.4-inch LCD screen kit, including the controller board, LVDS cable, inverter, and keyboard, to prepare it for operation.

⚠ Attention: The controller board must not touch any conductive surfaces when power is applied to prevent short circuits or damage.

4. OPERATION

Once all components are connected and power is supplied, the display should power on. If no video signal is detected, the board will enter a standby mode (<1W power consumption).

4.1 On-Screen Display (OSD) Menu

Use the provided keyboard with cable to navigate and adjust settings via the OSD menu. The OSD menu allows control over various display parameters.

- **Brightness:** Adjust the overall luminance of the screen.
- **Contrast:** Modify the difference between the lightest and darkest areas of the image.
- **Auto Adjustment:** Automatically optimizes display settings for the input signal.
- **Language:** Select the OSD menu language (English, French, German, Spanish, Italian, etc.).
- Other settings may include color temperature, aspect ratio, and input selection.

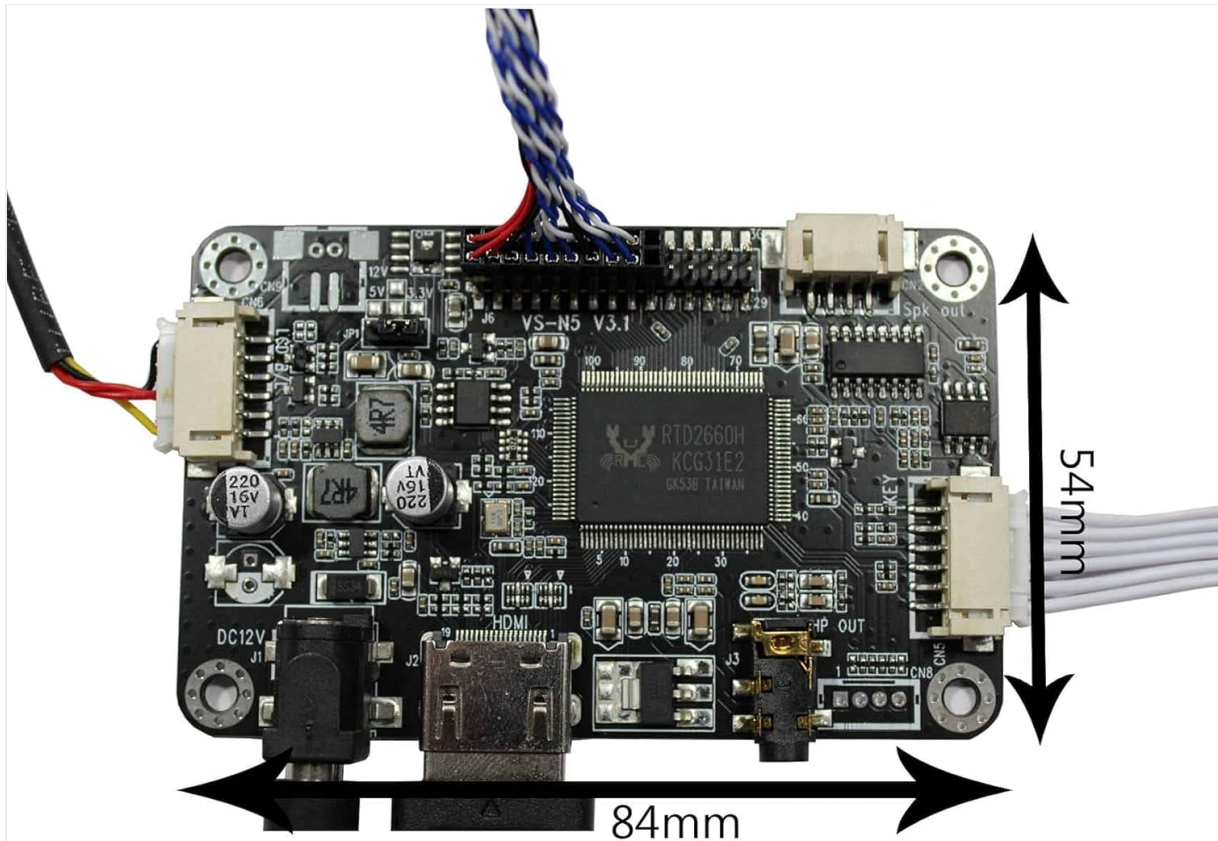


Figure 5: Controller Board with Connections. This image shows the controller board with the LVDS cable and keyboard cable connected, ready for operation.

5. TROUBLESHOOTING

- **No Display/Black Screen:**
 - Ensure the 12Vdc power adapter is correctly connected and providing sufficient power (>2A).
 - Verify that the LVDS cable is securely connected to both the controller board and the LCD screen, with the dots aligned.
 - Check the video input source (e.g., HDMI cable) for proper connection and functionality.
 - Confirm the inverter board is correctly connected to both the LCD and the controller board.
- **Incorrect Colors or Lines on Display:**
 - This display supports 8-bit color. If using a Linux system (e.g., Ubuntu 24.04), you may need to set the color depth using a command like: `xrandr --output DP1 --set "max bpc" 8`. Adjust 'DP1' to your specific output.
 - Check LVDS cable for damage or improper connection.
- **No Audio:**

- Ensure speakers or earphones are correctly connected to the audio output ports.
- Check OSD settings for audio volume and mute status.
- Verify the video source is sending an audio signal.
- **Controller Board Not Responding:**
 - Ensure the keyboard cable is securely connected.
 - Disconnect and reconnect the power to reset the board.

6. MAINTENANCE

To ensure the longevity and optimal performance of your VSDISPLAY LCD screen and controller board, follow these maintenance guidelines:

- **Cleaning:** Use a soft, lint-free cloth to gently wipe the screen surface. For stubborn marks, slightly dampen the cloth with water or a non-abrasive screen cleaner. Avoid harsh chemicals.
- **Dust Control:** Keep the controller board and screen free from dust accumulation, which can affect performance and lead to overheating. Use compressed air to clean hard-to-reach areas.
- **Environmental Conditions:** Operate the device within recommended temperature and humidity ranges. Avoid exposure to direct sunlight, extreme temperatures, and high moisture.
- **Power Management:** Disconnect the power adapter when the device is not in use for extended periods.

7. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the VSDISPLAY official website or contact your retailer. Keep your purchase receipt as proof of purchase for warranty claims.