VSDISPLAY DV170YGZ-N10

VSDISPLAY LVDS Controller Board Instruction Manual

Model: DV170YGZ-N10, DV170YGM-N10

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and troubleshooting of the VSDISPLAY LVDS Controller Board. This board is designed to work with 17-inch 1280x960 LCD screens, specifically models DV170YGZ-N10 and DV170YGM-N10, converting various video signals (HDMI, DVI, VGA) for display.
Please read this manual carefully before installation and use to ensure proper functionality and to prevent damage to the product or connected devices.

2. PRODUCT OVERVIEW

The VSDISPLAY LVDS Controller Board (M.NT68676) is a versatile solution for repurposing or integrating 17-inch 1280x960 LCD panels. It supports multiple video inputs and includes audio output capabilities.

Key Features:

- **Video Inputs:** HDMI, DVI, VGA

- **Audio Input:** HDMI

- **Audio Output:** Speaker connector

- **OSD Menu:** Brightness, Contrast, Auto-adjustment, and other display settings.

- **Power Requirement:** 12V DC, minimum 3A (power adapter not included).

- **Standby Mode:** Automatically enters standby when no signal is detected, consuming less than 1W.

- **Compatible Screen Models:** DV170YGZ-N10, DV170YGM-N10 (17-inch, 1280x960, LVDS interface).

Product Dimensions:

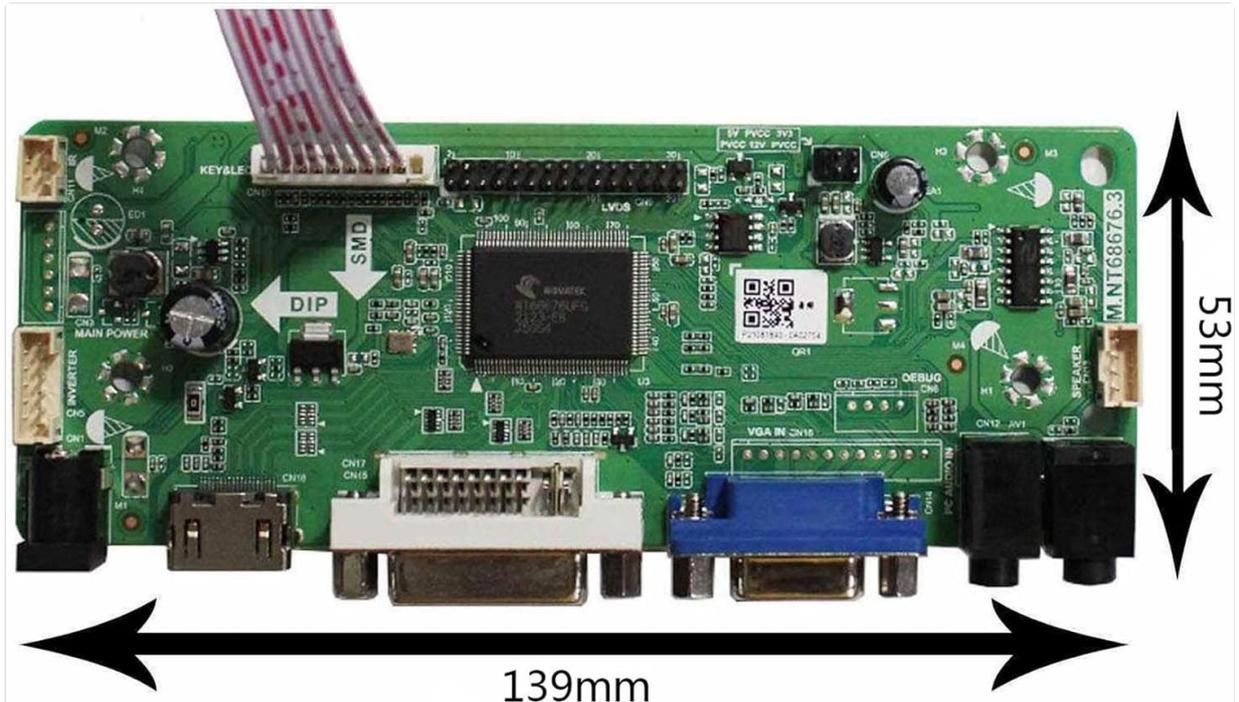The controller board measures approximately 139mm in length and 53mm in width, with a thickness of 17mm.

Image: VSDISPLAY LVDS Controller Board showing its dimensions (139mm length, 53mm width).

3. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x HD-MI VGA DVI LCD Controller Board (M.NT68676)
- 1 x Keyboard with cable (for OSD control)
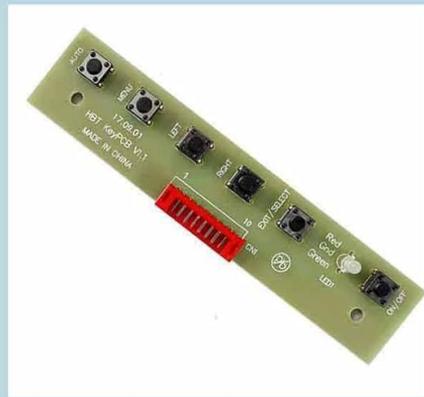- 1 x Screw and nut for GND connection

Shipping list

Image: Contents of the VSDISPLAY LVDS Controller Board package, including the board, control keyboard, and grounding hardware.

4. SETUP INSTRUCTIONS

Follow these steps to correctly connect the controller board to your LCD panel and power supply.
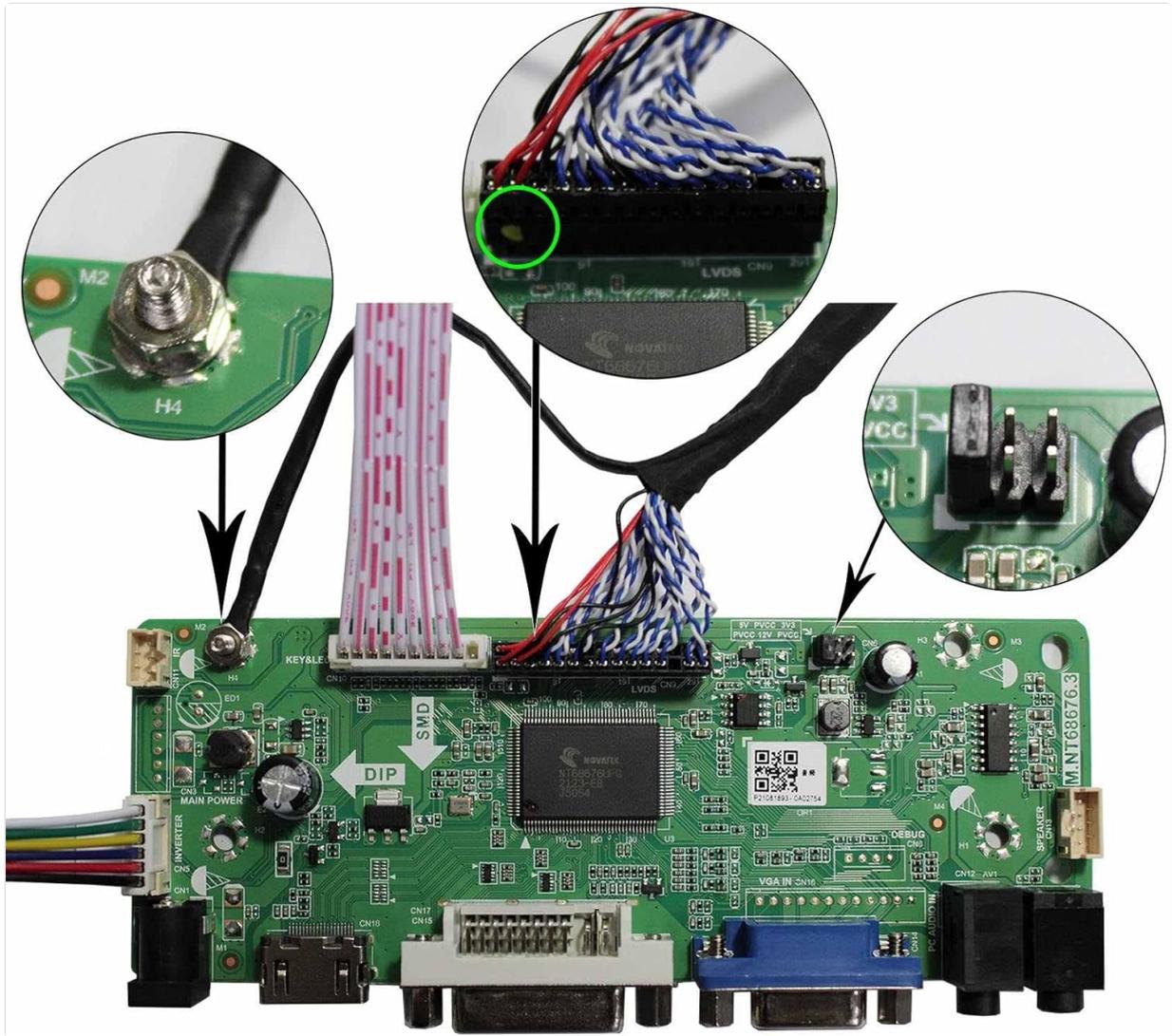
4.1. Connection Diagram

Image: Close-up of the VSDISPLAY LVDS Controller Board highlighting key connection points for the LVDS cable, keyboard, and ground screw.
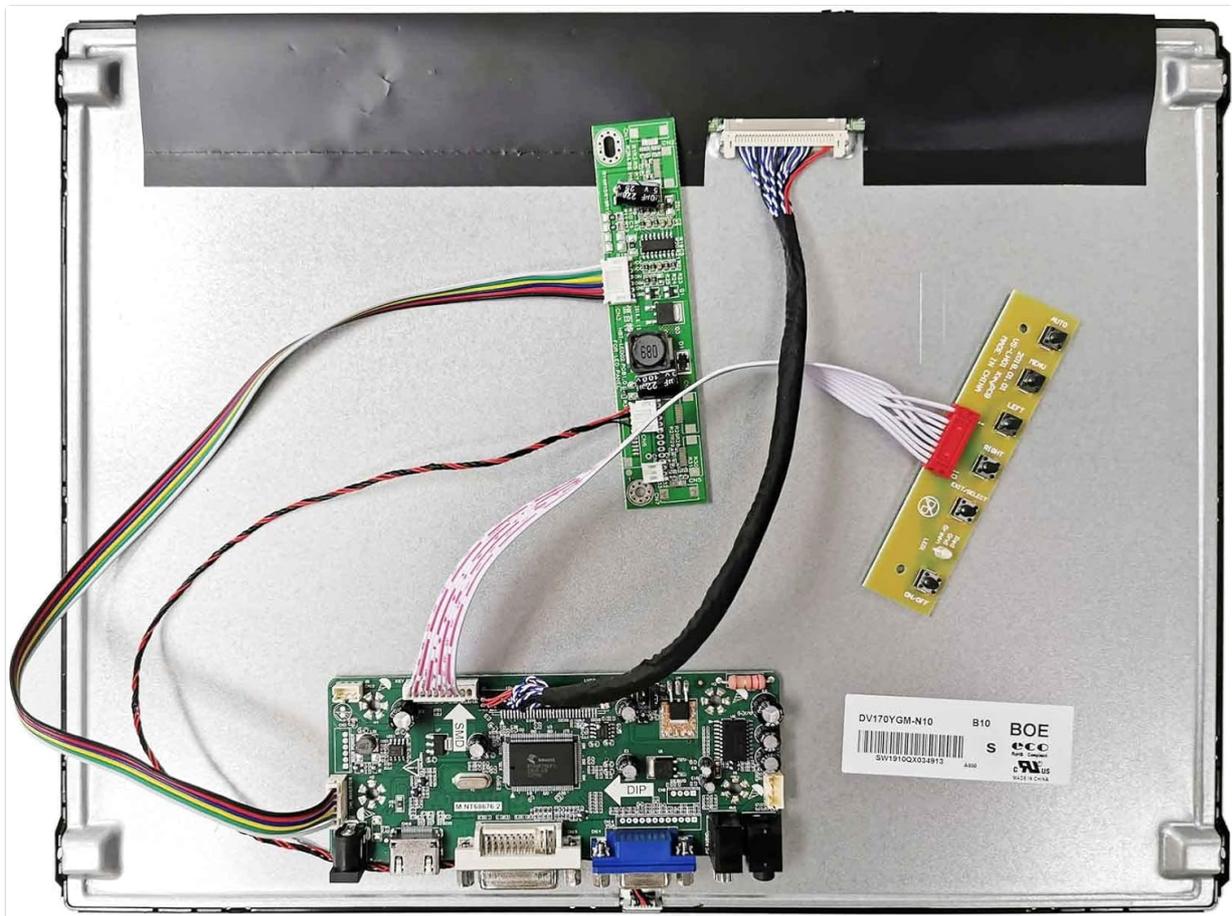
Image: The VSDISPLAY LVDS Controller Board fully connected to a compatible 17-inch LCD panel, demonstrating a complete setup.

4.2. Step-by-Step Connection:

1. **Prepare Components:** Ensure you have the controller board, compatible 17-inch 1280x960 LVDS LCD panel (e.g., DV170YGZ-N10, DV170YGM-N10), a 12V DC 3A (or higher) power adapter, and appropriate video cables (HDMI, DVI, or VGA).

2. **Connect LVDS Cable:** Carefully connect the LVDS cable from your LCD panel to the LVDS connector on the controller board. Ensure the cable is oriented correctly and securely seated. *Incorrect connection can lead to a white screen or flickering LED.*

3. **Connect Keyboard:** Attach the provided keyboard cable to the designated port on the controller board. This keyboard is used for OSD menu navigation.

4. **Ground Connection:** Use the provided screw and nut to secure a proper ground connection if required by your setup.

5. **Power Connection:** Connect a 12V DC power adapter (minimum 3A) to the power input jack on the controller board. **Do not connect the power adapter to a wall outlet yet.**

6. **Video Input:** Connect your desired video source (e.g., PC, game console) to the HDMI, DVI, or VGA input port on the controller board using the appropriate cable.

7. **Audio Output (Optional):** If using external speakers, connect them to the speaker connector on the board.

8. **Power On:** Once all connections are secure, plug the 12V DC power adapter into a wall outlet. The button indicator light should turn green, and the screen should display the video signal.

Important: Ensure the board is used in an isolated environment to prevent short circuits. If the screen remains white or the LED light flashes, recheck the LVDS signal cable connection.

5. OPERATING INSTRUCTIONS

The controller board features an On-Screen Display (OSD) menu for adjusting various display settings.

5.1. OSD Menu Navigation:

Use the buttons on the provided keyboard to navigate and adjust settings within the OSD menu. Common functions include:

- **Menu Button:** Opens the OSD menu.
- **Up/Down Buttons:** Navigate through menu options.
- **Left/Right Buttons:** Adjust values or select sub-menus.
- **Enter/OK Button:** Confirm selections.
- **Power Button:** Turns the display on/off.

5.2. Available Settings:

The OSD menu allows adjustment of parameters such as:

- Brightness
- Contrast
- Auto-adjustment (for VGA input)
- Input Source Selection (HDMI, DVI, VGA)
- Color Temperature
- Aspect Ratio
- OSD Language (English, French, German, Spanish, Italian, etc.)

Refer to the on-screen prompts for specific menu structures and options.

6. SPECIFICATIONS

Feature	Detail
Brand	VSDISPLAY
Model Number	DV170YGZ-N10 (Controller Board M.NT68676)
Compatible Screen Size	17 Inches
Compatible Screen Resolution	1280 x 960
Aspect Ratio	4:3
Video Inputs	HDMI, DVI, VGA
Audio Input	HDMI
Audio Output	Speaker Connector (8 ohm 2W speaker recommended)
Input Power	12V DC, >3A

Feature	Detail
Standby Power Consumption	<1W
Board Dimensions	139mm x 53mm x 17mm
Screen Surface Description	Glossy (for compatible screens)
Image Contrast Ratio	2000:1 (for compatible screens)

7. TROUBLESHOOTING

If you encounter issues during setup or operation, refer to the following common problems and solutions:

- **Problem:** Screen remains white or LED indicator light flashes.

  Solution: This usually indicates a poor connection of the LVDS signal cable. Power off the device, carefully recheck the LVDS cable connection to ensure it is securely and correctly seated on both the LCD panel and the controller board. Ensure the cable orientation is correct.

- **Problem:** No display or "No Signal" message.

  Solution:

  - Verify that the 12V DC power adapter is correctly connected and providing power (minimum 3A).
  - Ensure the video input cable (HDMI, DVI, or VGA) is securely connected to both the source device and the controller board.
  - Use the OSD menu to manually select the correct input source (HDMI, DVI, or VGA).
  - Confirm that your video source is outputting a signal compatible with the board (e.g., 1280x960 resolution).

- **Problem:** Display image is distorted or incorrect colors.

  Solution:

  - Check the LVDS cable connection for any bent pins or improper seating.
  - For VGA input, use the "Auto-adjustment" function in the OSD menu.
  - Ensure the LCD panel is fully compatible with the controller board (models DV170YGZ-N10, DV170YGM-N10).

- **Problem:** No audio output.

  Solution:

  - If using HDMI input, ensure the source device is sending audio over HDMI.
  - Verify that external speakers are correctly connected to the speaker connector on the board.
  - Check the volume settings in the OSD menu and on your source device.

> If you continue to experience problems, please provide your screen model number and photos of your connections via Amazon message. The manufacturer aims to resolve issues within 12 hours.

8. SUPPORT

For technical assistance or further inquiries, please contact VSDISPLAY customer support through the

Amazon messaging system. When contacting support, please provide:

- Your specific LCD screen model number.
- Detailed description of the issue.
- Photos of your connections, if relevant.

VSDISPLAY is committed to providing timely assistance and aims to resolve issues within 12 hours.