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› VSDISPLAY 10.4-inch IPS LCD Screen and USB Controller Board User Manual

VSDISPLAY VS104T-005A-1000 / VS-TY2660H-V823

VSDISPLAY 10.4-inch IPS LCD Screen and USB Controller Board User Manual

Model: VS104T-005A-1000 (LCD) / VS-TY2660H-V823 (Controller Board)

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your VSDISPLAY 10.4-inch IPS LCD Screen (VS104T-005A-1000) and its accompanying USB LCD Controller Board (VS-TY2660H-V823). This product is designed for various applications, including DIY secondary displays for PCs/laptops, replacement screens, and outdoor display monitors. Please read this manual thoroughly before use to ensure proper functionality and safety.

2. SAFETY INFORMATION

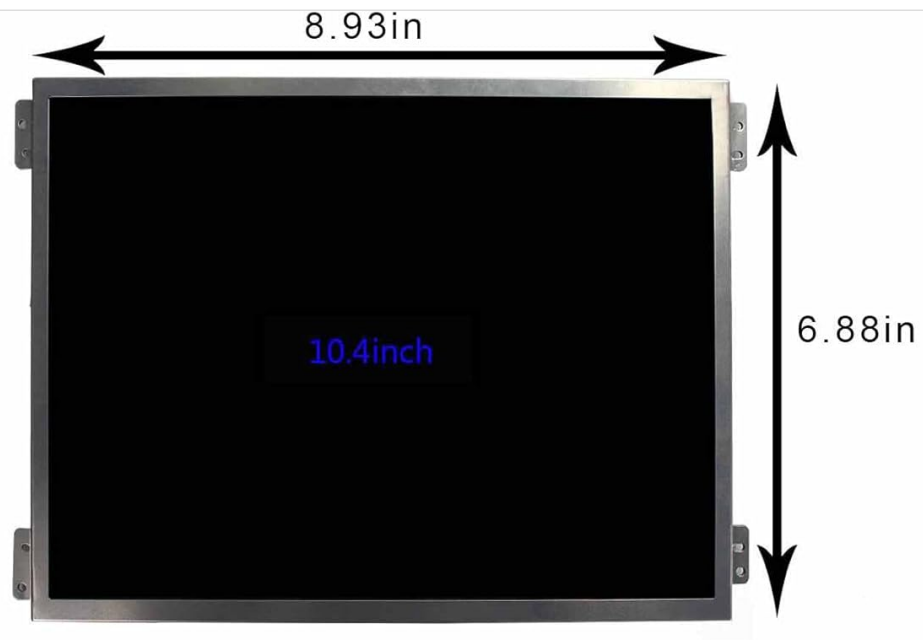
- **Power Supply:** Always use a stable 12Vdc power adapter with a current output of more than 2A. Using an incorrect power supply can damage the device.
- **Handling:** Handle the LCD screen and controller board with care. Avoid applying excessive pressure or bending the components.
- **Static Electricity:** Electronic components are sensitive to static electricity. Take appropriate precautions (e.g., use an anti-static wrist strap) when handling the board and screen.
- **Environment:** Do not expose the device to moisture, extreme temperatures, or direct sunlight. Ensure adequate ventilation.
- **Disassembly:** Do not attempt to disassemble or modify the components beyond the instructions provided in this manual. Unauthorized modifications can void the warranty and pose safety risks.

3. PACKAGE CONTENTS

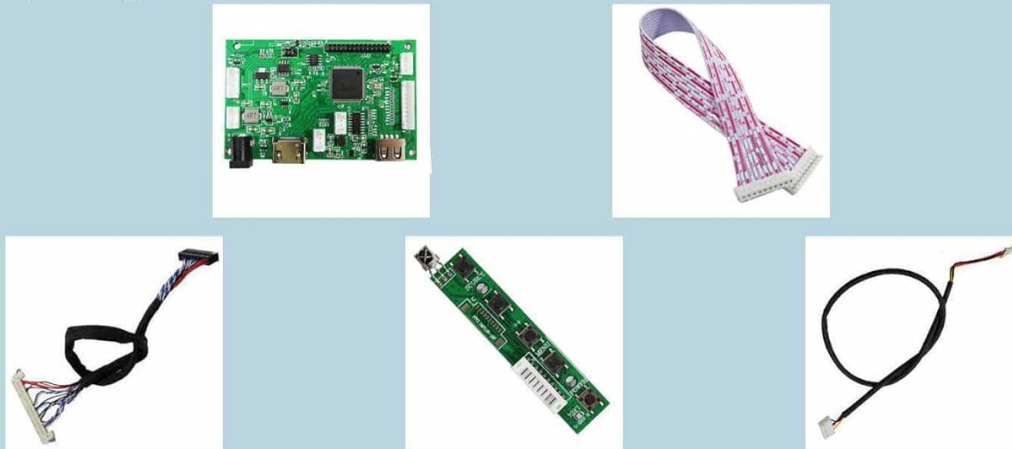
Verify that all items listed below are included in your package:

- 1 × USB LCD Controller Board (VS-TY2660H-V823)

- 1 × 10.4-inch IPS LCD Screen (VS104T-005A-1000, 1024x768)
- 1 × LVDS Cable
- 1 × Inverter Board
- 1 × Keyboard with Cable



Shipping list



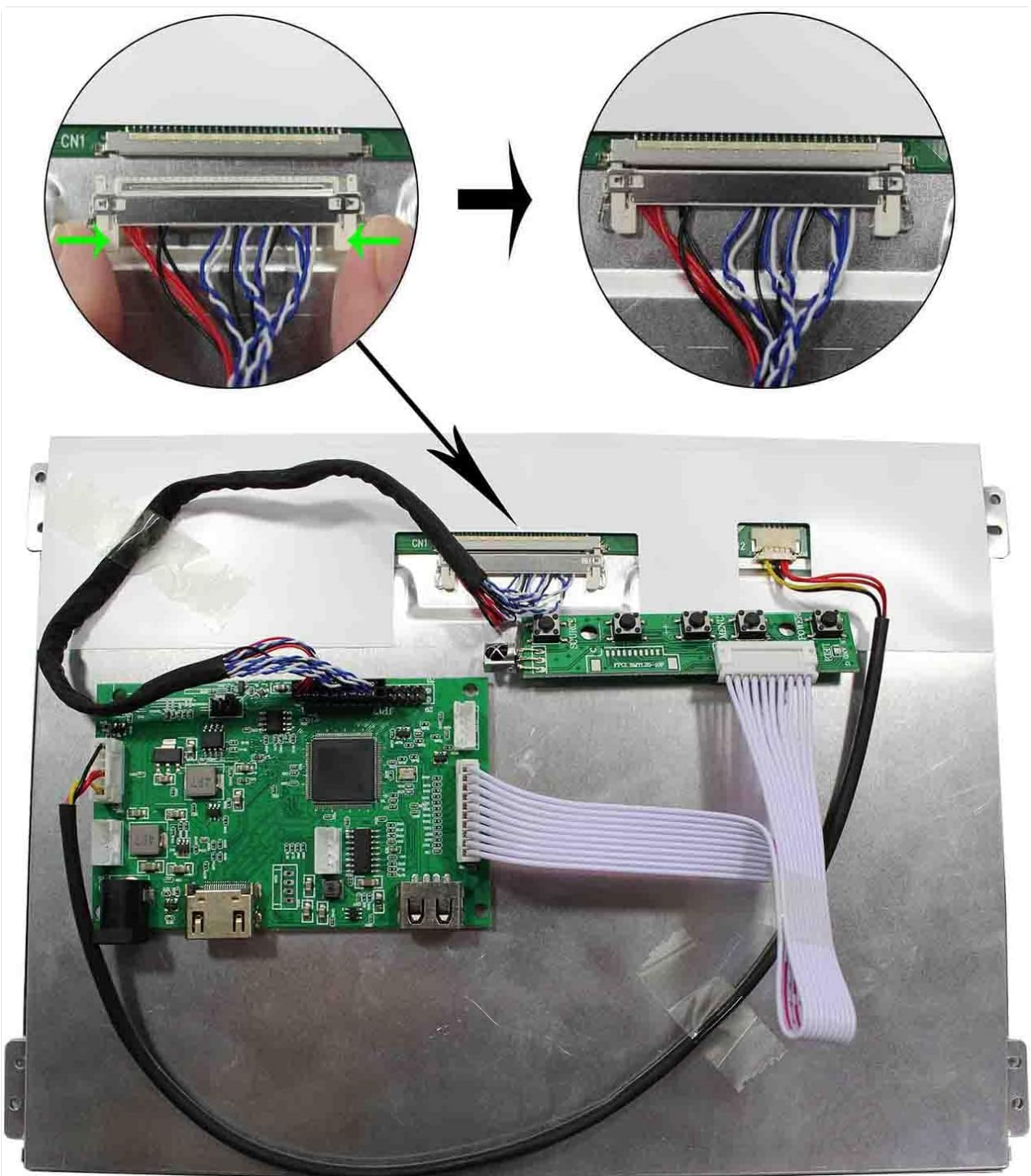
This image displays the VSDISPLAY 10.4-inch LCD screen with its dimensions, approximately 8.93 inches wide by 6.88 inches high. Below the screen, the image also shows the components included in the packing list: the USB LCD Controller Board, the 10.4-inch IPS LCD Screen, an LVDS Cable, an Inverter Board, and a Keyboard with Cable.

4. SETUP INSTRUCTIONS

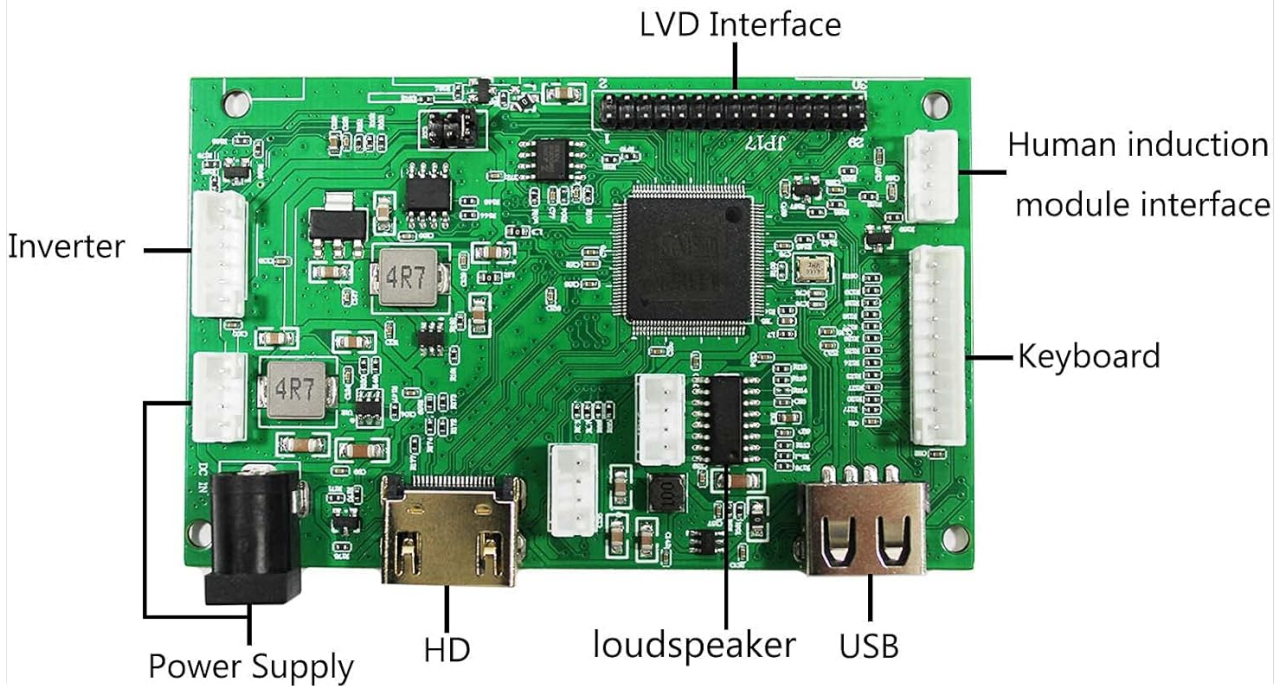
Follow these steps to assemble and connect your LCD screen and controller board:

1. **Connect the LVDS Cable:** Carefully connect one end of the LVDS cable to the LVDS interface on the LCD screen (CN1) and the other end to the LVDS interface on the controller board. Ensure the cable is oriented correctly and securely latched.
2. **Connect the Inverter Board:** Connect the inverter board to the backlight connector on the LCD screen. Then, connect the inverter cable to the designated inverter port on the controller board.

3. **Connect the Keyboard:** Attach the keyboard cable to the keyboard connector on the controller board. This keyboard will be used for OSD menu navigation.
4. **Connect Power:** Connect a 12Vdc, 2A (or greater) power adapter to the power input jack on the controller board. **Do not apply power yet.**
5. **Optional Connections:**
 - **USB Devices:** If using USB media playback, connect your USB storage device to one of the USB ports.
 - **Audio:** If using external speakers, connect them to the loudspeaker output on the controller board (supports 8ohm 2W / 4ohm 2W).
 - **Human Induction Module:** If applicable, connect a human induction module to its dedicated interface.
6. **Power On:** Once all connections are secure, plug in the 12Vdc power adapter to an electrical outlet. The screen should power on.



This image illustrates the connection process of the VSDISPLAY 10.4-inch LCD screen to the controller board. It shows the LVDS cable connecting the LCD panel to the controller board, and the keyboard ribbon cable connected to the controller board. The image emphasizes the secure connection of the ribbon cables.



This image provides a detailed view of the VSDISPLAY USB LCD Controller Board (model VS-TY2660H-V823), labeling its various ports and connectors. Key components identified include the LVDS Interface, Human Induction Module Interface, Keyboard connector, Inverter connector, Power Supply input, HD (HDMI) input, Loudspeaker output, and USB ports.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Connect the 12Vdc power adapter to power on the device. The controller board will enter standby mode if no signal is detected. Disconnect the power adapter to turn off the device.

5.2 On-Screen Display (OSD) Menu

Use the provided keyboard with cable to navigate the OSD menu. The OSD allows you to adjust various display settings:

- **Brightness:** Adjust the screen's luminance.
- **Contrast:** Modify the difference between light and dark areas.
- **Auto:** Automatically adjusts display settings.
- **Language:** Select the OSD language (English, French, German, Spanish, Italian, etc.).
- And other settings as available.

5.3 USB Media Playback

The controller board supports video, picture, and text playback directly from a USB storage device. Insert your USB drive into one of the USB ports on the controller board. Use the OSD menu or keyboard controls to navigate and select media files.

5.4 Firmware Upgrade

To upgrade the firmware:

1. Place the firmware upgrade file in the root directory of a USB flash drive.
2. Plug the USB flash drive into the USB port of the driver board.
3. Apply power to the board. The upgrade process will start automatically.
4. The board will automatically restart once the upgrade is completed.

6. MAINTENANCE

- **Cleaning the Screen:** Use a soft, lint-free cloth slightly dampened with water or a screen-cleaning solution. Do not spray liquid directly onto the screen.
- **Cleaning the Board:** Ensure the power is disconnected before cleaning. Use a soft brush or compressed air to remove dust from the controller board. Avoid using liquids.
- **Storage:** When not in use for extended periods, store the components in a dry, dust-free environment at moderate temperatures.

7. TROUBLESHOOTING

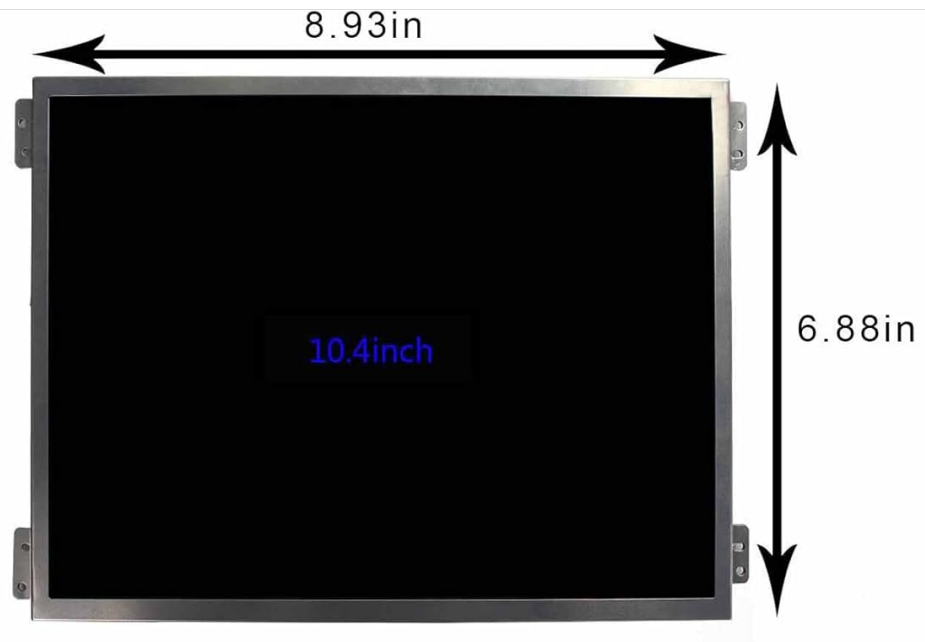
- **No Display:**
 - Ensure the 12Vdc power adapter is correctly connected and providing power.
 - Check all cable connections (LVDS, inverter, power) for secure fit.
 - Verify the input signal source (e.g., USB) is active and providing valid data.
- **OSD Menu Not Responding:**
 - Ensure the keyboard cable is securely connected to the controller board.
 - Check for any physical damage to the keyboard or cable.
- **No Audio:**

- Verify speakers are correctly connected to the loudspeaker output.
- Check audio settings in the OSD menu.
- Ensure the media file being played contains an audio track.
- **Image Issues (Flickering, Distorted):**
 - Check the LVDS cable for proper connection and any damage.
 - Ensure the power supply is stable and meets the specifications.

8. SPECIFICATIONS

8.1 10.4-inch IPS LCD Screen (VS104T-005A-1000)

Feature	Specification
Display Mode	IPS, Normally Black, Transmissive
Resolution	1024(RGB) × 768 (XGA)
Outline Size	225.8 × 174.3 × 5.6 mm (H×V×D)
Display Area	211.2 × 158.48 mm (H×V)
Brightness	1000 cd/m ² (Typ.)
Contrast Ratio	700:1 (Typ.) (TM)
Viewing Angle	85/85/85/85 (Typ.)(CR≥10) [Left / Right / Up / Down]
Signal Interface	LVDS (1 ch, 6/8-bit), Connector, 30 pins
Backlight	WLED
Input Voltage	3.3V (Typ.)
Aspect Ratio	4:3
Screen Surface	Glossy



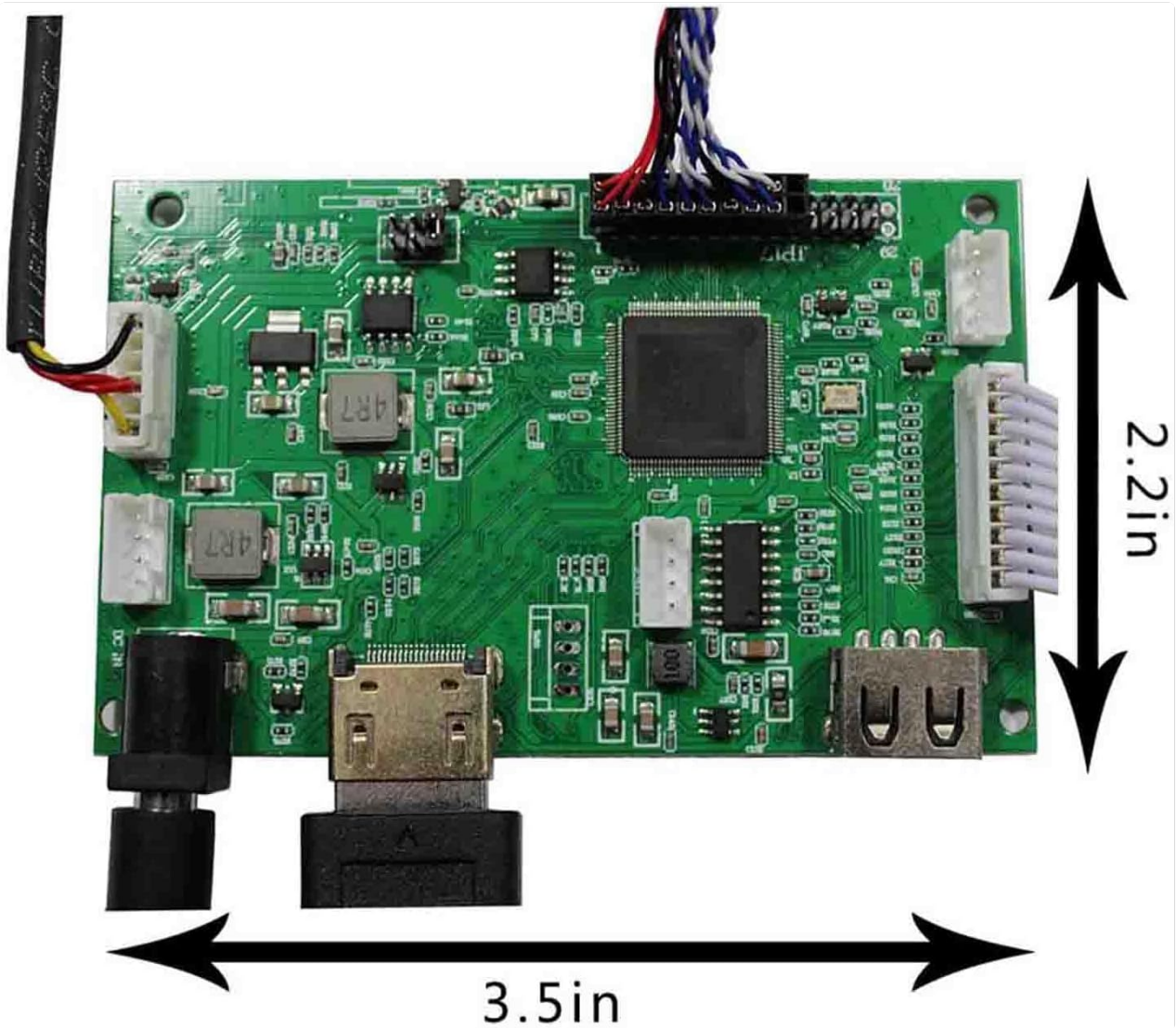
Shipping list



This image shows the VSDISPLAY 10.4-inch LCD screen with its approximate dimensions of 8.93 inches wide by 6.88 inches high.

8.2 USB LCD Controller Board (VS-TY2660H-V823)

Feature	Specification
Input Power Adapter	12Vdc, >2A
Standby Model Power	<1W (when no input signal)
Voltage to LCD Panel	3.3V, 5V, 12V (Jumper optional)
Video Input	USB (Support 1.4)
USB Functionality	Video Playback, Picture Playback, Text Playback, Firmware Upgrade
Audio Output	Speaker Support 8ohm 2W / 4ohm 2W
OSD Features	Brightness, Contrast, Auto, Language (English, French, German, Spanish, Italian, etc.)
Board Size	90mm x 51mm x 14mm



This image shows the VSDISPLAY USB LCD Controller Board (model VS-TY2660H-V823) with its approximate dimensions of 3.5 inches by 2.2 inches. It highlights the compact size of the board.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your VSDISPLAY product, please refer to the seller's return policy or contact VSDISPLAY customer service through the platform where the product was purchased. Please retain your proof of purchase for warranty claims.