

Mrisata Mrisata92v4thopmn

Mrisata 3.1in LCD Display Control Board

INSTRUCTION MANUAL

Model: Mrisata92v4thopmn

1. Product Overview

The Mrisata 3.1-inch LCD Display Control Board is an essential accessory for enhancing the user interface of your 3D printer. Featuring a clear LCD screen with white characters and a blue backlight, it provides intuitive control and monitoring capabilities. This board is designed to integrate seamlessly with various 3D printer models, offering simplified operation and improved efficiency.

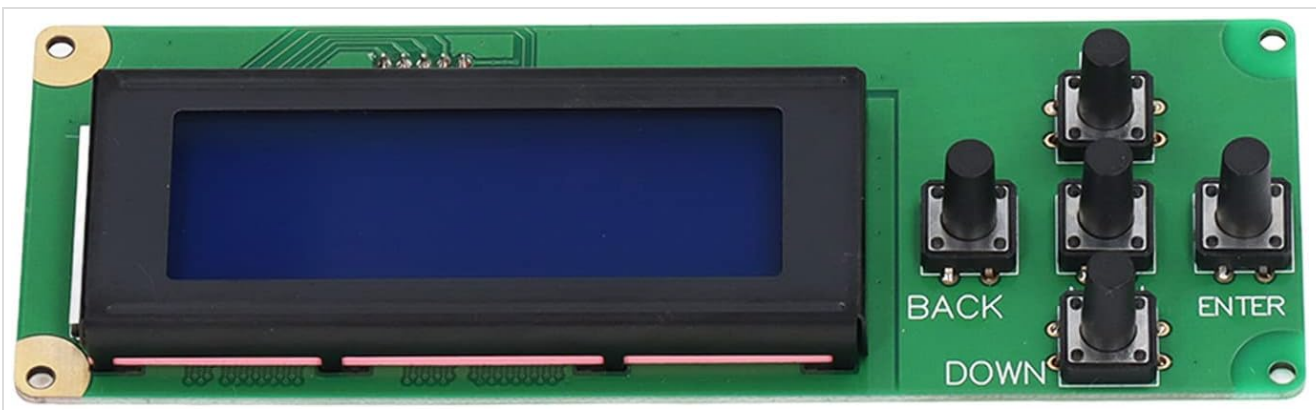


Image: Front view of the Mrisata 3.1in LCD Display Control Board, showing the blue LCD screen and control buttons.

2. Key Features

- **Clear Display:** Features a 3.1-inch LCD screen with white characters and blue backlight for excellent visibility.
- **Smart Control:** Compatible with RAMPS 1.4 control boards, significantly simplifying and improving operational efficiency.

- **Wide Compatibility:** Supports various 3D printer models, including Anet A8, A6, A4, and E2.
- **5-Pin Cable:** Includes a double-row 5-pin cable for firm, stable, and easy plug-and-play connection.
- **User-Friendly Interface:** Equipped with an encoder for intuitive parameter adjustment, file selection, and printing control.
- **Memory Card Support:** Integrates a memory card slot on the mainboard, allowing direct printing of files stored on the card.
- **Easy Installation:** Lightweight and compact design ensures quick and convenient installation.

3. Package Contents

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

- 1 x LCD Display Control Board
- 1 x 5 Pin Cable (approximately 50cm / 19.69in length, double row 5P, 2561)

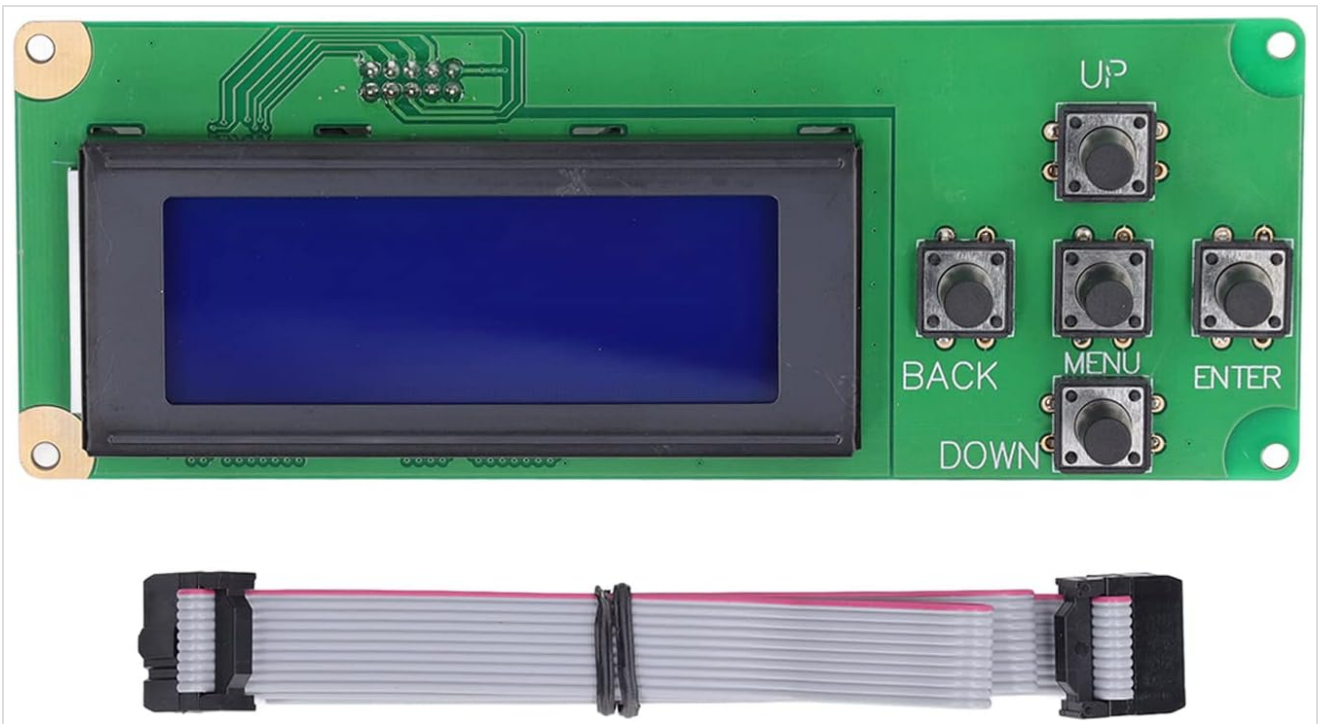


Image: The LCD Display Control Board shown alongside its accompanying 5-pin ribbon cable.

4. Setup Instructions

4.1 Connecting the Display Board

1. Ensure your 3D printer and control board are powered off before beginning the connection process.
2. Locate the designated LCD display port on your RAMPS 1.4 control board or compatible mainboard.
3. Connect one end of the provided 5-pin cable to the corresponding port on the LCD Display Control Board. Ensure the connector is oriented correctly to avoid damage.
4. Connect the other end of the 5-pin cable to the LCD display port on your 3D printer's mainboard. Verify a firm

and secure connection.



Image: Angled view of the LCD Display Control Board, highlighting the connector pins on the underside of the board.

4.2 Firmware Modification

This LCD display operates on a plug-and-play basis for hardware connection. However, it requires modification of your 3D printer's firmware (e.g., Marlin firmware) to enable full support and functionality, including displaying menus and parameters correctly. Refer to your 3D printer's specific documentation or online resources for detailed instructions on firmware modification.

5. Operating Instructions

5.1 Navigation and Selection

The LCD Display Control Board features an integrated encoder and buttons for navigation:

- **Encoder:** Rotate the encoder knob to scroll through menu options and adjust parameters.
- **Press Encoder:** Press the encoder knob to select an option or confirm a setting.
- **Dedicated Buttons:** Use the 'UP', 'DOWN', 'BACK', 'MENU', and 'ENTER' buttons for direct navigation and control as labeled on the board.

5.2 Printing from Memory Card

To print directly from a memory card:

1. Insert a memory card containing your G-code files into the memory card slot on the mainboard (if integrated, as mentioned in specifications).
2. Navigate through the LCD menu using the encoder and buttons to find the 'Print from SD' or similar option.
3. Select the desired G-code file from the list displayed on the LCD screen.
4. Confirm your selection to begin the printing process.

Video: A demonstration of the LCD Display Control Board in operation, showcasing its features and functionality.

6. Maintenance

To ensure the longevity and optimal performance of your LCD Display Control Board, follow these simple maintenance guidelines:

- **Cleaning:** Gently wipe the screen and board surface with a soft, dry, lint-free cloth. Avoid using abrasive cleaners or solvents, as they may damage the display or components.
- **Handling:** Handle the board by its edges to prevent touching the electronic components directly.
- **Storage:** When not in use, store the board in a dry, dust-free environment away from direct sunlight and extreme temperatures.

7. Troubleshooting

If you encounter issues with your LCD Display Control Board, consider the following troubleshooting steps:

- **Display Not Lighting Up:**
 - Check all cable connections to ensure they are secure and correctly oriented.
 - Verify that your 3D printer's mainboard is receiving power.
 - Confirm that the firmware on your 3D printer's mainboard is correctly configured to support the LCD display.
- **Garbled Text or Incorrect Display:**
 - This often indicates an issue with firmware configuration. Ensure the correct LCD type is selected in your firmware settings.

- Check for any loose connections in the 5-pin cable.

- **Buttons or Encoder Not Responding:**

- Ensure the board is firmly connected to the mainboard.
- Restart your 3D printer.
- Verify that the firmware supports the button layout and encoder functionality.

- **No Printing from Memory Card:**

- Ensure the memory card is properly inserted and formatted correctly (e.g., FAT32).
- Verify that the G-code files on the memory card are valid and compatible with your printer.
- Check firmware settings related to SD card support.

8. Technical Specifications

Specification	Detail
Screen Size	3.1 inches
Display Type	LCD (White character, Blue backlight)
Model	2004
Applicable Printers	For Anet A8, A4, A6 L, E2, and other compatible models
Cable Specifications	50cm / 19.69in (approx.) length, double row 5P, 2561
Insulation	1000mΩ, DC 500V, min.
Resistance	15mΩ, maximum.
Operating Temperature	-40°C to +105°C
Item Weight	5.1 ounces
Package Dimensions	7.09 x 3.94 x 1.57 inches
Manufacturer	Mrisata
Item Model Number	Mrisata92v4thopmn

9. Warranty and Support

For any questions, technical assistance, or warranty inquiries regarding your Mrisata LCD Display Control Board, please contact the seller or manufacturer directly through the platform where the product was purchased. Please

refer to your purchase documentation for specific warranty terms and contact information.

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