

NEXTION NX4832K035

NEXTION NX4832K035 3.5-inch HMI Touchscreen Display User Manual

Model: NX4832K035

1. INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your NEXTION NX4832K035 3.5-inch Human Machine Interface (HMI) touchscreen display. The NX4832K035 is designed for various embedded control applications, offering an interactive graphical user interface.

2. SETUP

2.1 Package Contents

- NEXTION NX4832K035 Display Module
- Connection Cables

2.2 Power Supply

The NX4832K035 display requires a stable 5V DC power supply. Ensure the power source can provide sufficient current for stable operation.

2.3 Connectivity

The display supports connectivity via GPIO and USB interfaces. For serial communication, connect the display to your microcontroller or development board using the appropriate pins:

- **Red:** +5V (Power)
- **Black:** Ground (GND)
- **Blue:** Transmit Data (TX)
- **Yellow:** Receive Data (RX)

2.4 Initial Programming

To load custom interfaces or firmware onto the display, you can use either an SD card or the serial port. When using an SD card, ensure it is an older, lower-class card (e.g., 4 GB Class 6) as modern Class 10 SD cards may not be

compatible. Alternatively, programming via the serial port is possible, though it may take 10-15 minutes for file transfer depending on the project size.



Figure 1: NEXTION NX4832K035 3.5-inch HMI touchscreen display module.

3. OPERATING INSTRUCTIONS

3.1 Basic Interaction

The NX4832K035 features a resistive touchscreen for user input. Interact with on-screen elements by gently pressing the display surface. The display supports various graphical elements such as buttons, text fields, progress bars, and images, all configurable through the NEXTION Editor software.

3.2 Adjusting Brightness

Brightness can typically be adjusted through a dedicated control element on your custom interface, if implemented. This allows you to optimize visibility based on ambient lighting conditions.

3.3 Page Navigation

Custom interfaces often include navigation buttons or gestures to switch between different display pages. Follow the on-screen prompts or interface design to move between sections of your application.

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Video 1: Demonstration of the NEXTION NX4832K035 display's interactive features, including a custom dashboard interface and touch input.

4. MAINTENANCE

4.1 Cleaning the Display

To clean the display surface, use a soft, lint-free cloth. If necessary, slightly dampen the cloth with water or a mild, non-abrasive screen cleaner. Avoid using harsh chemicals or abrasive materials that could damage the screen.

4.2 Environmental Conditions

Operate and store the display within recommended temperature and humidity ranges to ensure longevity. Avoid exposure to extreme temperatures, direct sunlight, or high moisture environments.

5. TROUBLESHOOTING

5.1 Display Not Powering On

- Verify that the 5V power supply is correctly connected and providing adequate power.
- Check all cable connections for secure fit.

5.2 Touchscreen Unresponsive

- Ensure the display firmware is correctly loaded and running.
- Calibrate the touchscreen if your application supports it.

5.3 Programming Issues

- **SD Card:** If using an SD card for programming, try an older, lower-capacity card (e.g., 4 GB Class 6). Modern Class 10 cards may not be compatible.
- **Serial Port:** Ensure correct wiring (TX/RX, 5V/GND) and baud rate settings. Be aware that serial programming can take a significant amount of time (10-15 minutes).

5.4 Incorrect Initial Display

Some units may come pre-loaded with a demo screen that incorrectly identifies the display model. Refer to the product packaging and official documentation for the correct model number (NX4832K035 is an Enhanced display, not a Basic display as some demos might suggest).

6. SPECIFICATIONS

Feature	Detail
Product Dimensions	3.9 x 3.1 x 1.6 inches
Item Weight	3.2 ounces

Standing Screen Display Size	3.5 Inches
Screen Size	3.5 Inches
Screen Surface Description	Glossy
Special Feature	Touchscreen
Connectivity Technology	GPIO, USB

7. WARRANTY INFORMATION

For specific warranty details, please refer to the documentation provided with your purchase or visit the official NEXTION website. Keep your proof of purchase for any warranty claims.

8. CUSTOMER SUPPORT

If you encounter any issues or have questions not covered in this manual, please contact NEXTION customer support through their official website or the retailer from whom you purchased the product. Provide your product model (NX4832K035) and a detailed description of the issue for efficient assistance.

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