

The **3.95 inch TFT Color LCD Display Module with Touch Panel** is a high-quality display solution designed for projects that demand a larger screen size, vibrant color reproduction, and interactive touch functionality. With a **320×480 pixel resolution**, **wide color support**, and a responsive **touch interface**, this module is ideal for makers, engineers, and hobbyists working on Raspberry Pi, Arduino, and other embedded development platforms.

Whether you are building a **user interface**, designing a **portable device**, or developing an **IoT dashboard**, this module provides both clarity and interactivity in a compact, durable form factor.



## Key Features

- **High-Resolution Display (320×480 pixels):**  
The 3.95-inch screen delivers sharp visuals and crisp text, making it suitable for detailed graphical displays and professional-looking interfaces.
- **Vivid Color Reproduction:**  
With support for **65,536 colors**, this TFT display ensures bright, vibrant, and accurate visuals for applications ranging from data visualization to media playback.

- **Touch Panel Integration:**  
The built-in **resistive touch panel** provides an intuitive way to interact with your projects, making it easier to create touch-based menus, control panels, and applications.
  - **Broad Compatibility:**  
Designed to work with popular development platforms such as **Raspberry Pi, Arduino, STM32, and other microcontrollers**, this display module offers flexibility across different projects.
  - **Durable Build Quality:**  
Manufactured with high-quality materials, including an **LED backlight** for long-lasting brightness and stable performance.
  - **Compact Yet Functional:**  
Despite being compact in size, the display offers a large enough active area to comfortably interact with menus, dashboards, and visual outputs.
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## Technical Specifications

- **Display Type:** TFT LCD
- **Screen Size:** 3.95 inch
- **Resolution:** 320 × 480 pixels
- **Color Depth:** 65,536 colors
- **Interface:** SPI / Parallel (depending on module configuration)
- **Touch Screen Type:** Resistive touch panel
- **Touch Controller:** XPT2046 or equivalent
- **Backlight:** LED
- **Aspect Ratio:** 3:2
- **Viewing Area:** Wide, suitable for both text and images
- **Power Supply:** 5V / 3.3V depending on configuration
- **Typical Brightness:** ~250–300 cd/m<sup>2</sup>
- **Operating Systems Supported:** Raspbian, Ubuntu, Arduino IDE-based projects, STM32 firmware environments
- **Applications:** Raspberry Pi, Arduino, ESP32, STM32, and other MCU projects



## Applications

The **3.95 inch TFT LCD Touch Module** is suitable for a wide range of applications, including:

- **DIY Raspberry Pi Projects:** Build portable computers, small gaming consoles, or system monitoring dashboards.
  - **Arduino and Embedded Systems:** Create custom GUIs, touch control interfaces, and portable measurement devices.
  - **IoT Dashboards:** Display sensor readings, weather updates, or system logs with a clear, interactive interface.
  - **Smart Home Devices:** Use the screen as a compact control panel for lighting, climate, or appliances.
  - **Robotics:** Integrate into robots for displaying real-time data, camera feeds, or touch-based navigation controls.
  - **Educational Projects:** A great tool for students learning about display technology, touchscreen integration, and embedded programming.
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## Why Choose the 3.95 Inch TFT Touch Display?

1. **Larger Size, Better Readability:** The 3.95-inch display provides a comfortable viewing and interaction area without taking up too much space.
  2. **Interactive Touch Control:** Makes it easy to add interactivity to your projects without needing external buttons or switches.
  3. **High-Quality Visuals:** The 320×480 resolution ensures sharp details and vibrant graphics.
  4. **Cross-Platform Compatibility:** Works with multiple development boards, making it highly versatile.
  5. **Durability and Reliability:** Designed with robust components for long-term use.
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## Conclusion

The **3.95 inch 320×480 TFT Color LCD Display Module with Touch Panel** combines clarity, vibrant visuals, and interactive touch control in one compact module. It's the perfect choice for hobbyists, students, and professionals who need a reliable screen for **Raspberry Pi, Arduino, STM32, and other embedded applications**.

With its **high-resolution display, resistive touch interface, and broad compatibility**, this module is a versatile and powerful addition to any electronics toolkit. Whether you're building a **portable IoT device**, developing a **touch-enabled control system**, or simply want a high-quality display for your projects, this screen delivers performance, reliability, and ease of use.

Upgrade your projects with the **3.95 inch TFT LCD Touch Module** – the perfect balance between size, performance, and interactivity.