Manuals+ — User Manuals Simplified.
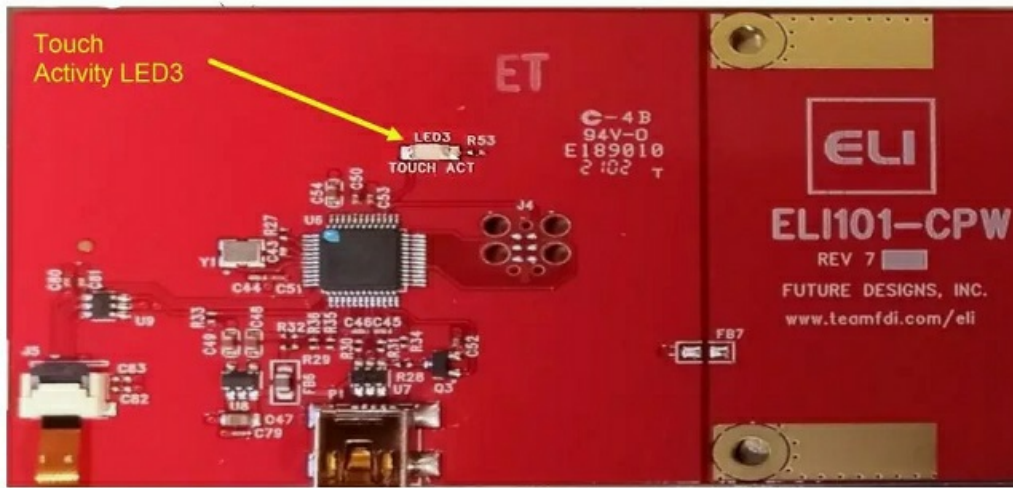

FDI ELI101-CPW 10.1 Inch PCAP Touchscreen LCD Module User Guide

Contents

FDI

FDI ELI101-CPW 10.1 Inch PCAP Touchscreen LCD Module

Product Information

Specifications

- **Model:** ELI101-CPW
- **Power Input:** 12V DC, 2.1mm, center positive, 1.2A min
- **Interface:** HDMI, USB (Mini USB Type B)

Product Usage Instructions

Required Equipment

- HDMI Cable (Type A Male)
- USB Cable (Mini USB Type B)
- 12V DC power input, 2.1mm, center positive, 1.2A min
- Computer, SBC, or PC with digital video output (HDMI) and USB port for touch input

Getting Started with ELI101-CPW

1. Connect the HDMI cable from your SBC to the ELI board.
2. Connect the Mini USB to USB cable to your SBC and the ELI101-CPW for touch input.
3. Apply power to ELI with a 12VDC +/- 5% 2.0A power supply.
4. Verify or configure your SBC for the proper resolution.
5. Power on your SBC. The ELI display will power on and show the output from the SBC.
6. Perform Touch Screen Calibration in your operating system following the application notes provided.

ELI101-CPW Connections

- USB Touch (P1)
- DC Power In (P2 & J6)
- HDMI In (J1)

For troubleshooting tips, please visit the FDI support website at: **https://www.teamfdi.com/support/**

We'd like your feedback and welcome constructive comments to: **support@teamfdi.com**

Introduction

About ELI

ELI® is Future Designs, Inc.'s family of long-life, plug-and-play embedded displays. ELI products are true modular embedded display solutions that require no engineering or lead-time. All ELI products are compatible with a wide range of single board computers including Raspberry Pi, BeagleBone Black and Windows-based units. FDI designed ELI as an embedded display option that requires minimal development time to help customers reach production quickly. Once a product is in production, FDI's 10-15 year ELI product availability guarantee helps ensure production schedules without the risk of expensive or time consuming redesigns. Learn more about ELI at **TeamFDI.com/ELI**.

ELI Compatibility

ELI products are compatible with most single board computers, PCs and operating systems. See **https://www.teamfdi.com/product-details/eli101-cpw** under the Compatibility tab for the results of FDI's compatibility tests with popular operating systems and platforms. Our results, as indicated in the table, demonstrate ELI's versatility but the table is not exhaustive. ELI products are designed to work with any single board computer that has an HDMI output. To submit a question about ELI's compatibility with a platform or operating system that is not included in the table, contact a member of the FDI support team at **Support@teamfdi.com**.

Required Equipment (Not Provided)

- HDMI Cable (Type A Male) to connect to the ELI for the video signal
- USB Cable (Mini USB Type B) to connect to the ELI for the touch screen operation
- 12V DC power input, 2.1mm, center positive, 1.2A min
- Your choice of computer, SBC, or PC, with digital video output (HDMI) and USB port for touch input.

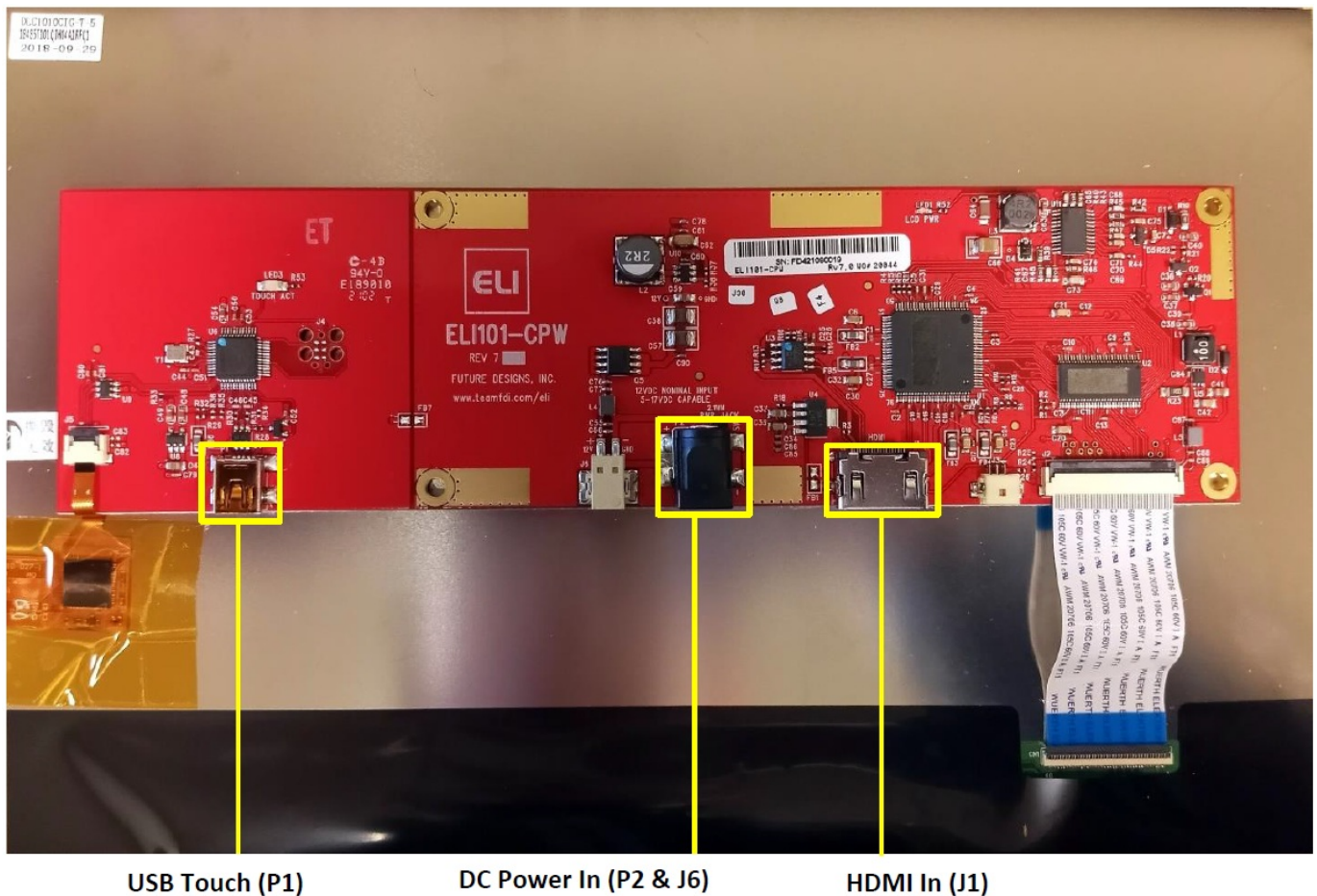## Getting Started

Getting Started with ELI101-CPW

A few notes prior to powering up your SBC:

- BeagleBone Black (and many other SBCs) will boot up and drive ELI without any software changes.
- Raspberry Pi requires a few additional steps which are listed in greater detail in the ELI Software Users Manuals which can be found here: **https://fdiwebdocs.s3.us-east-2.amazonaws.com/2024/wp-content/uploads/ELI-Software Users-Manual.pdf**
- For additional information for specific SBCs, see our ELI Software Users Manuals.
- For help with all your ELI needs, please visit **TeamFDI.com/ELI**

1. Connect the HDMI cable from your SBC to the ELI board.
2. Connect the Mini USB to USB cable to your SBC and the ELI101-CP for touch input (See Figure below).
3. Apply Power to ELI with a 12VDC +/- 5% 2.0A power supply such as the Digi-key PN: **T1071-P5P-ND** or Mouser PN: **552-PSA-24A-120-R** (See Figure below).
4. Once you have verified or configured your SBC for the proper resolution, power on your SBC.

5. The ELI display will power on and show the output from the SBC.
6. Touch Screen Calibration should be performed in your operating system following one of the application notes (Linux only) found here: **https://www.teamfdi.com/product-details/eli101-cpw#documentation**.

ELI101-CPW Connections

USB Touch (P1)   DC Power In (P2 & J6)   HDMI In (J1)

Power may be supplied either via the 2-pin terminal block J6 or via the 2.1mm power jack P2 (center positive)

More Info

For troubleshooting tips, please visit the FDI support website at: **https://www.teamfdi.com/support/**

We'd like your feedback and welcome constructive comments to: **support@teamfdi.com**

FAQ

- **Q: Where can I find Touch Screen Calibration instructions for ELI101-CPW?**
    - **A:** Touch Screen Calibration instructions can be found in the application notes provided on the official website: **Touch Screen Calibration Application Notes**.
- **Q: What should I do if my ELI display is not showing the output from the SBC?**
    - **A:** If your ELI display is not showing the output from the SBC, please ensure that all connections are secure and that the SBC is properly configured for resolution. You may also refer to the troubleshooting tips on the FDI support website.

Documents / Resources

	FDI ELI101-CPW 10.1 Inch PCAP Touchscreen LCD Module [pdf] User Guide ELI101-CPW 10.1 Inch PCAP Touchscreen LCD Module, ELI101-CPW, 10.1 Inch Touchscreen LCD Module, PCAP Touchscreen LCD Module, Touchscreen LCD Module, LCD Module
	FDI ELI101-CPW 10.1 Inch PCAP Touchscreen LCD Module [pdf] User Manual ELI101-CPW, ELI101-CPW 10.1 Inch PCAP Touchscreen LCD Module, ELI101-CPW, 10.1 Inch PCAP Touchscreen LCD Module, PCAP Touchscreen LCD Module, LCD Module, Module

References

- 🌐 **airspayce.com/mikem/bcm2835/bcm2835-1.52.tar.gz**
- **D** **Electronic Components and Parts Search | DigiKey Electronics**
- **D** **Electronic Components and Parts Search | DigiKey Electronics**
- **FDI** **FDI Homepage - FDI**
- **FDI** **FDI Homepage - FDI**
- **FDI** **Extended Display Identification Data (EDID) - FDI**
- **FDI** **Extended Display Identification Data (EDID) - FDI**
- **FDI** **Forums - FDI**
- **FDI** **Support - FDI**
- **User Manual**