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TELEMATICS 3.5" TFT Touch LCD Shield

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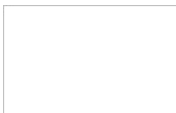
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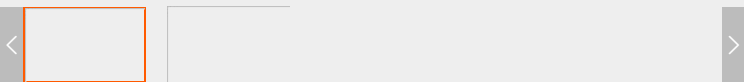
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+ Arduino Mega ... Rev3 ☐

+ ... V1.0 (SPI Interface) ☐

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INTRODUCTION

For beginners to Arduino it can be daunting and risky to wire LCD driver circuits - one wrong connection and your component can be damaged. This LCD expansion board removes all the complications and risks.

The TELEMATICS 3.5" TFT Touch LCD Shield is an Arduino compatible display designed by DFRobot, with a resolution of 320x480, three serial ports and one I2C interface. It is perfectly compatible with Arduino DUE, Mega1280/2560, and Bluno Mega1280/2560. There is an on-board voltage switch which supports changing the output voltage between 3.3V and 5V to ensure that it won't damage your DUE. In addition, the LCD shield comes with a MicroSD card slot on the back that can be used for data storage up to a maximum of 32GB. We also offer a variety of driver packages to help you implement different features.
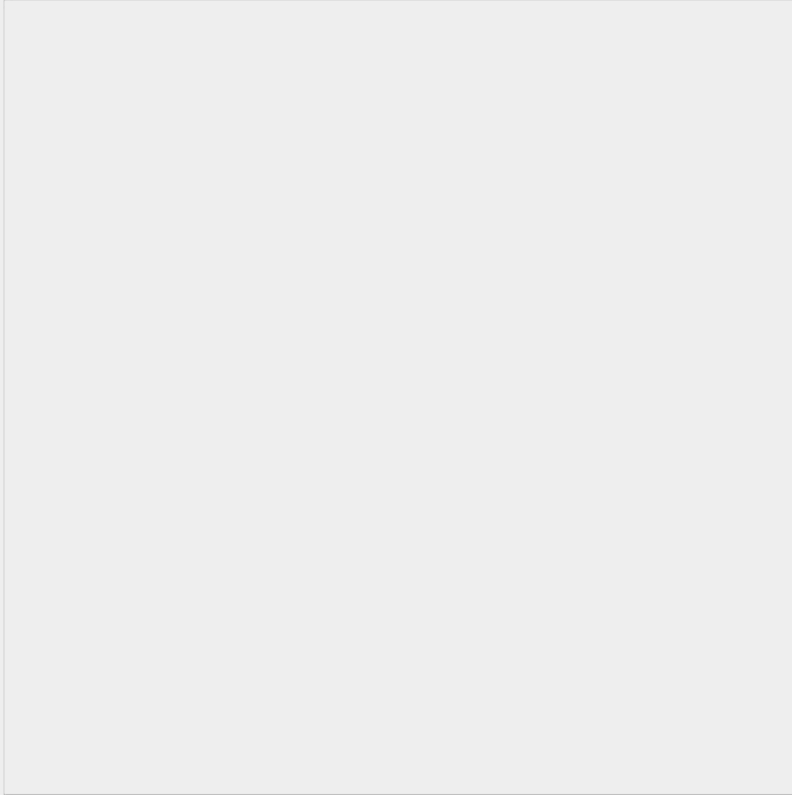
Note: Since the operating voltage of DUE and MEGA are different, the backlight brightness will change if you replace your Arduino platform. Please adjust the D8 PWM signal to control the brightness of the backlight.

SPECIFICATION

- Screen Size: 3.5"
- Resolution Ratio : 320x480
- Power Supply: 5V
- Output Voltage: 3.3/5V
- Backlight Control Mode: D8 PWM signal
- Supports MicroSD card (Up to 32GB)
- Serial Ports: 3
- I2C interface: 1
- Compatible with Arduino Compatible DUE/Mega 1280/2560
- Compatible with the Bluno Mega 1280/2560
- Supports Touch Functionality
- Dimensions: 100x57mm/3.93x2.24 inches
- Weight: 70g

DOCUMENTS

- Product WIKI
- More Documents

SHIPPING LIST

- TELEMATICS 3.5" TFT Touch LCD Shield x1

REVIEW

FAQ

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🤖 n the discussion…

Brian Alvarado · 10 months ago

The "lcd.println();" doesn't work as intended in my code. Each line is printed on top of each other.
Could it have something to do with these warnings that appear when I compile the code:

warning: '__progmem__' attribute ignored [-Wattributes]

virtual void draw(const PROGMEM byte* buffer, uint16_t width, uint16_t height) {}

Thanks!

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∨

Dallas McNeil · 2 years ago

the display is not functioning , I charge the examples of software on the wiki and with the command println only appears the first character of the string of characters.
I am using DFRobot_TELEMATICS_3.5-_TFT_Touch_LCD_Shield- with the Arduino Mega 2560

My code is as follows:

#include <arduino.h>
#include <spi.h>
#include <multilcd.h>

LCD_R61581 lcd;

void setup(){
lcd.begin();
lcd.setFontSize(FONT_SIZE_MEDIUM); //set font size
lcd.setColor(RGB16_YELLOW); //set strings color
lcd.setCursor(0, 0);
lcd.print("SAMPLE");
}

void loop(){

}

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> **DFRobot Support** `Mod` → Dallas McNeil · 2 years ago
>
> Could you please take some pictures of your setting (wiring connection) and how the LCD behaves to techsupport@dfrobot.com? Thank you.
>
> ∧ · Reply · Share ›
> ∨

Андрей Беляков · 3 years ago

Good afternoon
If you switch to 3.3v on Due, the screen does not turn on. On the D8 pin 3.3 volts appears.
The screen is enabled on logic 3.3 if only apply 5v to D8 pin. What could be the problem? Thank you

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∨

> **DFRobot Support** `Mod` → Андрей Беляков · 3 years ago
>
> You need to change the PWM on D8, not just the voltage.
>
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---

jose luis minguez arellano · 3 years ago

the display is not functioning , I charge the examples of software on the wiki and with the command println only appears the first character of the string of characters

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> **DFRobot Support** `Mod` → jose luis minguez arellano · 3 years ago
>
> What was the sample code you use?
>
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>
> > **Dallas McNeil** → DFRobot Support · 2 years ago
> >
> > I am having the same problem. Was a solution found?
> >
> > 1 ∧ · Reply · Share ›
> > ∨

Guadalupe · 3 years ago

I need to run this display by I2C. I am looking for the libraries.

DFRobot Support `Mod` ➜ Guadalupe • 3 years ago

There is an I2C library in the related library file https://github.com/ArduinoI...

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Samus • 4 years ago • edited

I have placed the shield (LCD screen) onto the Arduino DUE.
I downloaded the correct Libraries and got the Sketch from the WIKI page.
Nothing is happening to the LCD (looks like no power) ... please help
I also connected the Arduino DUE to a power supply of 10V and 1 AMP ... but the screen still doesn't light up.

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Robert ➜ Samus • 4 years ago

Did you switch the power switch to 3.3V? The working voltage of DUE is 3.3V

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Samus ➜ Robert • 4 years ago

Thank s for the response.
So the power going to the screen must be 3.3v? Also the switch on the screen must be set to 3.3v?

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Robert ➜ Samus • 4 years ago

Yes, the I/O pins on DUE are 3.3v, so the switch must be set to 3.3V

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