

## Lcd Display For Ezb4 - Using Arduino Mini As Controller

Hello again, I have created an LCD Display for the EZB4. This is a very cheap and easy project. You will need 1 LCD display ( my code is set up for 2 line 16 char display) [[url=http://www.ebay.com/itm/5x-1602-LCD-16x2-Character-LCM-Display-Module-HD44780-Controller-Blue-Backlight-/321515590385?pt=LH\\_DefaultDomain\\_0&hash=item4adbd292f1](http://www.ebay.com/itm/5x-1602-LCD-16x2-Character-LCM-Display-Module-HD44780-Controller-Blue-Backlight-/321515590385?pt=LH_DefaultDomain_0&hash=item4adbd292f1)]here are 5 of them for about 10 bucks USD[[url=http://www.ebay.com/sch/i.html?\\_from=R40&\\_trksid=p2047675.m570.l1313.TR9.TRC2.A0.H0.Xarduino+pro+mini&\\_nkw=arduino+pro+mini&\\_sacat=0](http://www.ebay.com/sch/i.html?_from=R40&_trksid=p2047675.m570.l1313.TR9.TRC2.A0.H0.Xarduino+pro+mini&_nkw=arduino+pro+mini&_sacat=0)]Here is a listing of them on ebay[[url](http://www.ebay.com/sch/i.html?_from=R40&_trksid=p2047675.m570.l1313.TR9.TRC2.A0.H0.Xarduino+pro+mini&_nkw=arduino+pro+mini&_sacat=0)] Oh here is the wiring . again I am using the pro mini . this is...

Last Updated: 9/15/2015

## Step 1

Hello again,

I have created an LCD Display for the EZB4.

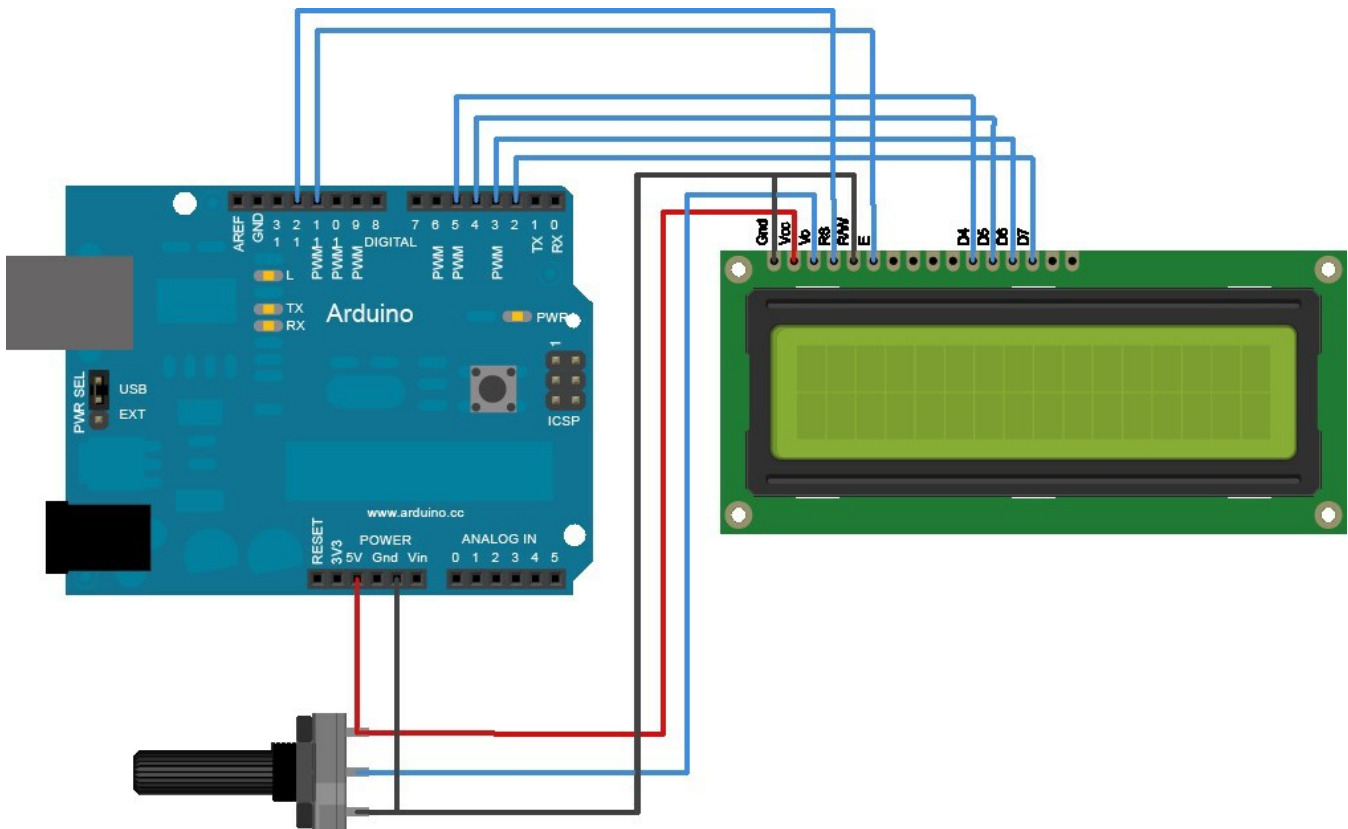
This is a very cheap and easy project.

You will need

1 LCD display ( my code is set up for 2 line 16 char display)  
[here are 5 of them for about 10 bucks USD](#)

1 Arduino ( any model will work but i recomend the Pro MINI)  
[Here is a listing of them on ebay](#)

Oh here is the wiring . again I am using the pro mini . this is showing and UNO board. the pin outs are the same.



To wire your LCD screen to your Arduino, connect the following pins:

LCD RS pin to digital pin 12

LCD Enable pin to digital pin 11

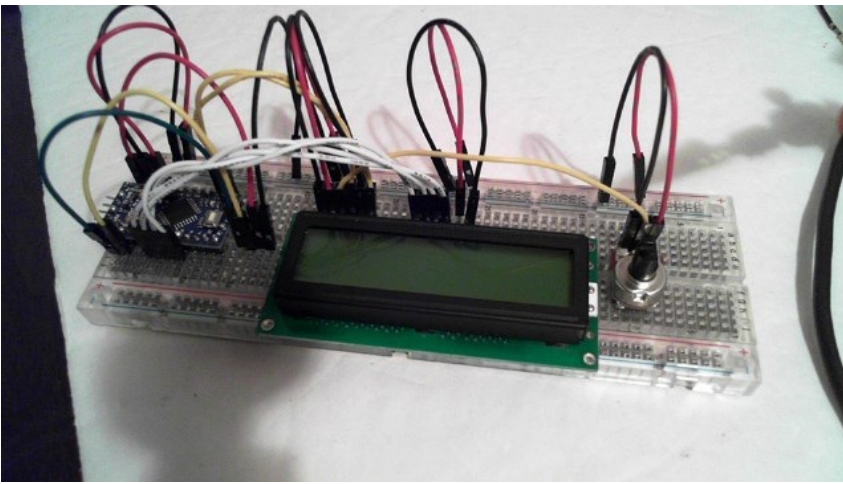
LCD D4 pin to digital pin 5

LCD D5 pin to digital pin 4

LCD D6 pin to digital pin 3

LCD D7 pin to digital pin 2

Additionally, wire a 10K pot to +5V and GND, with it's wiper (output) to LCD screens VO pin (pin3).



Arduino code:

**Code:**

```
// LCD and Arduino to EZB4  
// Project Created by Luis A. Vazquez  
// www.dragontear.com
```

```
#include <LiquidCrystal.h>  
String content = "";  
LiquidCrystal lcd(12, 11, 5, 4, 3, 2);  
void setup() {  
  Serial.begin(9600);  
  lcd.begin(16, 2);  
  lcd.setCursor(0,0);  
  lcd.print("EZB4 LCD Display");  
  lcd.setCursor(0,1);  
  lcd.print("By DragonTear");  
}
```

```
void loop() {  
  readSignalFromComp();  
}
```

```
void readSignalFromComp() {  
  if (Serial.available()) {  
    delay(100);  
    while (Serial.available() > 0) {  
      int temp = Serial.read();
```

```
      Serial.print("Debug:");  
      Serial.println(temp);  
  
      if (temp == 17){lcd.clear();}  
  
      if (temp == 18){lcd.setCursor(0,0);}  
  
      if (temp == 19){lcd.setCursor(0,1);}  
  
      if (temp > 31){ lcd.write(temp); }  
  
    }  
  }  
}
```

EZ-Builder Script

**Code:**

```
UartInit(0,2,9600)  
UARTWrite(0,2,17, 18, "Hello From" , 19 , "EZ-Builder")
```

The control codes are:

- 17 - to clear the screen
- 18 - Move cursor to line 1
- 19 - Move cursor to line 2

I hope this was complete and self explanatory, but if not please ask , I am willing to help.