

SYNTHIAM

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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)

[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...

Last Updated: 9/15/2015

Step 1

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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:

```

```
// 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

```
...
```

```
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.