

LCD: Serial Display

Description

This example gets the input from the serial monitor and displays it on the LCD. We will be using the code provided under the examples on the Arduino* IDE 1.5.3.

Hardware

- Intel® Galileo
- Adafruit LCD 16x2
- Potentiometer
- Breadboard
- Wires

Instructions

1. Connect a wire from GND pin to negative strip on the breadboard.
2. Connect a wire from 5V to Positive strip on breadboard.
3. Place the potentiometer on the breadboard.
4. Place the LCD on the breadboard
5. Connect pin 1 on the potentiometer to GND.
6. Connect pin 2 on the potentiometer to pin 3 on the LCD.
7. Connect pin 3 on the potentiometer to 5V.
8. Connect pin 1, pin 5, and pin 16 on the LCD to GND.
9. Connect pin 2 and pin 15 on the LCD to GND.
10. Connect pin 4 on the LCD to pin 12 on the Galileo.
11. Connect pin 6 on the LCD to pin 11 on the Galileo.
12. Connect pin 11 on the LCD to pin 5 on the Galileo.
13. Connect pin 12 on the LCD to pin 4 on the Galileo.
14. Connect pin 13 on the LCD to pin 3 on the Galileo.
15. Connect pin 14 on the LCD to pin 2 on the Galileo.
16. Open Arduino IDE under Tools → Board select Intel® Galileo
17. Under Tools → Serial Port select the Com # where the Galileo is connected to.
18. Under File → Examples → LiquidCrystal and select the "SerialDisplay" example.
19. Insert "lcd.init(1,12,255,11,5,4,3,2,0,0,0,0);" in the beginning of the setup function.

20. Upload to the Galileo by clicking the upload button.



21. Open the serial monitor and input a value to send to the LCD.



- 22.

Circuit

