

Build the wiringPi on ubuntu

- **NOTE** for ODROID C users.
- Before starting this guide, you should check whether the 1-wire module is loaded or not. **Because 1-wire and LCD_RS share the GPIOX_21 pin.**

```
$ lsmod
Module                Size  Used by
wl_gpio                3785
wire                   25687  1 wl_gpio
(...)
```

- If 1-wire module is loaded, then please **unload the 1-wire modules.**

```
$ sudo modprobe -r wl_gpio
```

- Or, **add "wl_gpio"** in /etc/modprobe.d/**blacklist-odroid.conf** file.

To use the LCD-IO Shield with wiringPi you build the wiringPi library first.

1. Get the wiringPi library compatible **ODROID Series.**

```
$ sudo apt install git
$ git clone https://github.com/hardkernel/wiringPi
```

2. Build the library

```
cd wiringPi
./build
```

Tutorials

Basic example



1. Get a source code.

[example-lcd.c](#)

```
wget https://dn.odroid.com/source_peripherals/16x2lcdio/example-lcd.c
```

2. Compile & Run

```
gcc -o example-lcd example-lcd.c -lwiringPi -lwiringPiDev -lm -lpthread -lrt -lcrypt  
sudo ./example-lcd
```

Display System Time



1. Get a source code.

[lcd_time.c](#)

```
wget https://dn.odroid.com/source_peripherals/16x2lcdio/lcd_time.c
```

2. Compile & Run

```
gcc -o lcd_time lcd_time.c -lwiringPi -lwiringPiDev -lm -lpthread -lrt -lcrypt  
sudo ./lcd_time
```

Interrupt example

1. Get a source code.

[wiring_isr.c](#)

```
wget https://dn.odroid.com/source_peripherals/16x2lcdio/wiring_isr.c
```

2. Compile & Run

```
gcc -o wiring_isr wiring_isr.c -lwiringPi -lwiringPiDev -lm -lpthread -lrt -lcrypt
```

```
sudo ./wiring_isr
```

3. Push the SW1 on 16x2lcd board

Display sensors value with Weather-Board

- [Display sensors value with Weather-Board](#)

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