

# 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.**

target



```
$ lsmod
Module                Size  Used by
w1_gpio               3785  0
wire                  25687  1 w1_gpio
(...)
```

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

target

```
$ sudo modprobe -r w1_gpio
```

- Or, add **“w1\_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.**

target

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

2. Build the library

target

```
cd wiringPi
./build
```

# Tutorials

## Basic example



1. Get a source code.

[example-lcd.c](#)

target

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

2. Compile & Run

target

```
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](#)

target

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

2. Compile & Run

target

```
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](#)

target

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

2. Compile & Run

target

```
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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Last update: **2019/05/14 14:26**

