

# WEATHER-BOARD with 16x2 LCD on ODROID-C1/C1+/C2



## I2CA (/dev/i2c-1)

Pin Number	Net Name	Export Number	
		C0/C1/C1+	C2
3	I2CA.SDA	74	205
5	I2CA.SCL	75	206

## I2CB (/dev/i2c-2)

Pin Number	Net Name	Export Number	
		C0/C1/C1+	C2
27	I2CB.SDA	76	207
28	I2CB.SCL	77	208

## Settings I2C

This guide is tested on Ubuntu 16.04(kernel C1-3.10.104, C2-3.14.79).

Add I2C module

```
$ sudo modprobe aml_i2c
```

```
$ ls /dev/i2c-*
```

To always load the kernel module on boot up, run the following command.

```
$ echo "aml_i2c" | sudo tee -a /etc/modules
```

## Download & Run

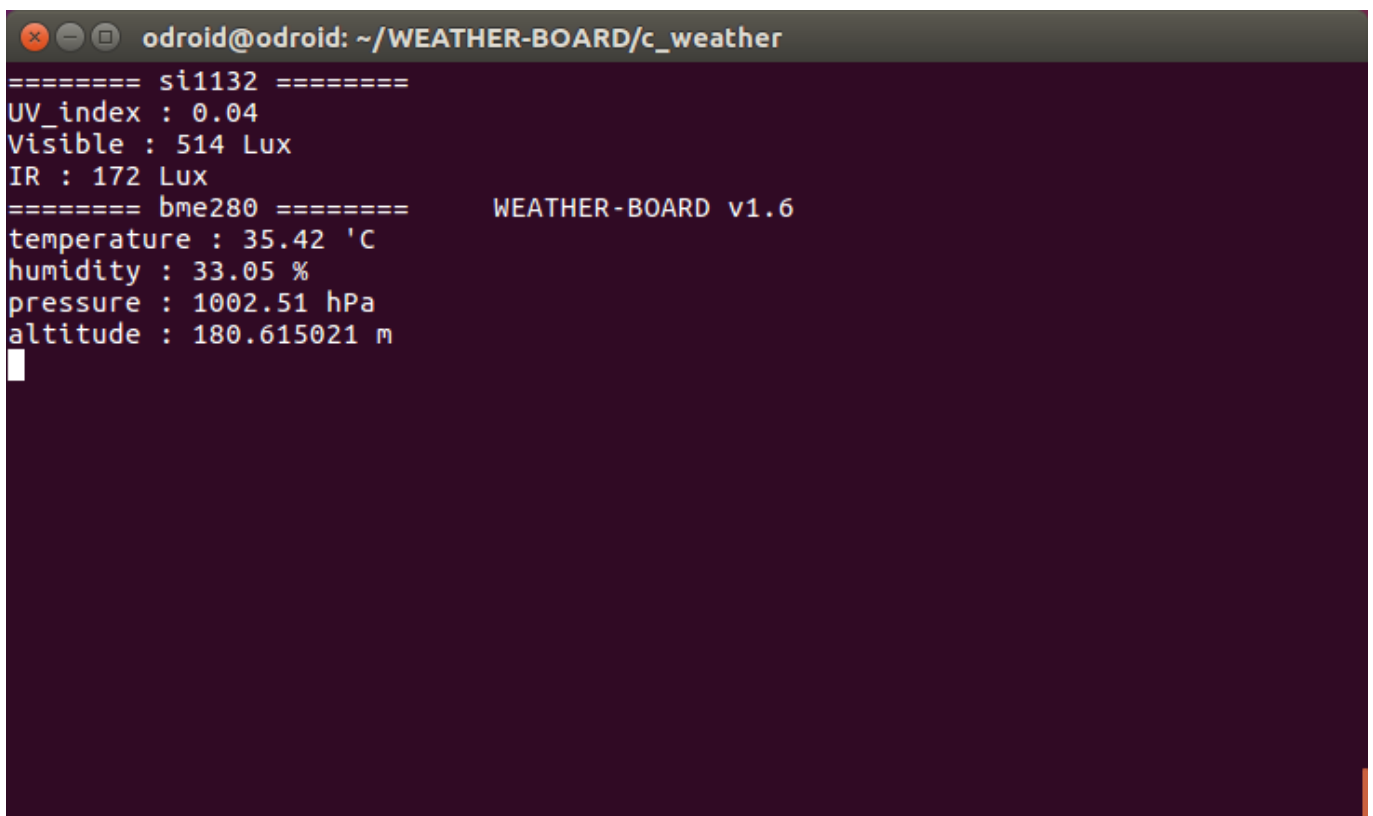
```
$ sudo apt-get install git
$ git clone https://github.com/hardkernel/WEATHER-BOARD.git
$ cd WEATHER-BOARD/c_weather
$ make
```

Check your I2C node, and run the program.

```
$ sudo ./weather_board
```

or

```
$ sudo ./weather_board /dev/i2c-2
```



```
odroid@odroid: ~/WEATHER-BOARD/c_weather
===== si1132 =====
UV_index : 0.04
Visible : 514 Lux
IR : 172 Lux
===== bme280 =====          WEATHER-BOARD v1.6
temperature : 35.42 'C
humidity : 33.05 %
pressure : 1002.51 hPa
altitude : 180.615021 m
█
```

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<http://wiki.odroid.com/accessory/sensor/weather-board/c/16x2lcd>

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