



## IO expansion board for Edison SKU: DFR338

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### Introduction

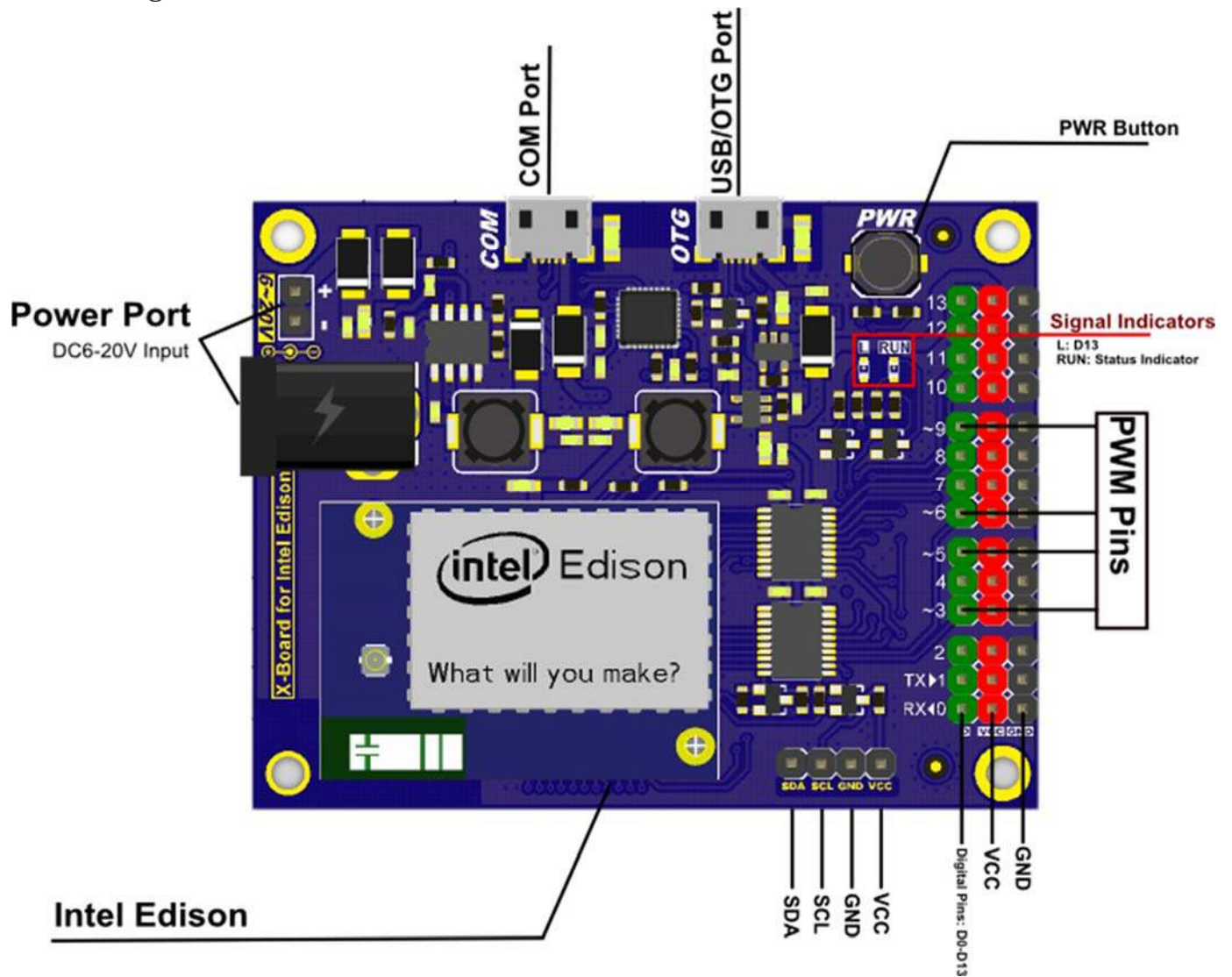
IO expansion board for Edison is a multi-purpose, all-in-one development platform based on Intel Edison and Arduino SoC. IO expansion board for Edison is compatible with Arduino open source platform and Linux, and supports Java and C development environment. It can also be used as a standalone communication platform for software like flash, processing, Max/MSP and VVVV.

## Application

- Digital I/O pins :D0-D13
- PWM Output interface :4 (Digital pins D3, D5, D6 and D9)
- Support USB power and external power supply switch
- Support 1 x I2C interface
- Support Broadcom 43340 802.11 a/b/g/n dual band (2.4G and 5GHz) WiFi

Support Bluetooth 4.0

## Pinout Diagram



## Tutorial

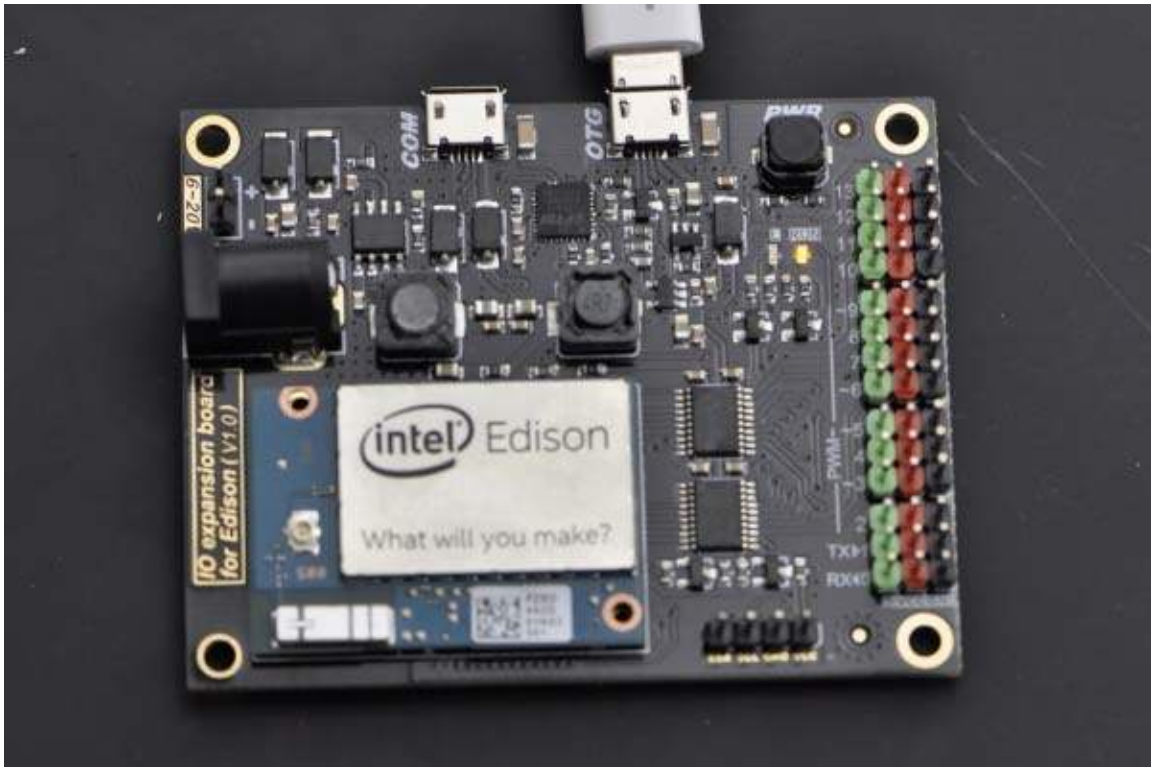
### IO expansion board for Edison Quick Start

#### The Construction of the Hardware Environment

Part List:

- IO expansion board x1
- Edison module x1
- micro USB x1
- Computer x1

Hardware Connection Diagram



Hardware Connection Diagram

#### The Construction of the Software Environment

Software Environment

Operating System

**Windows 8.1**

Compile Environment

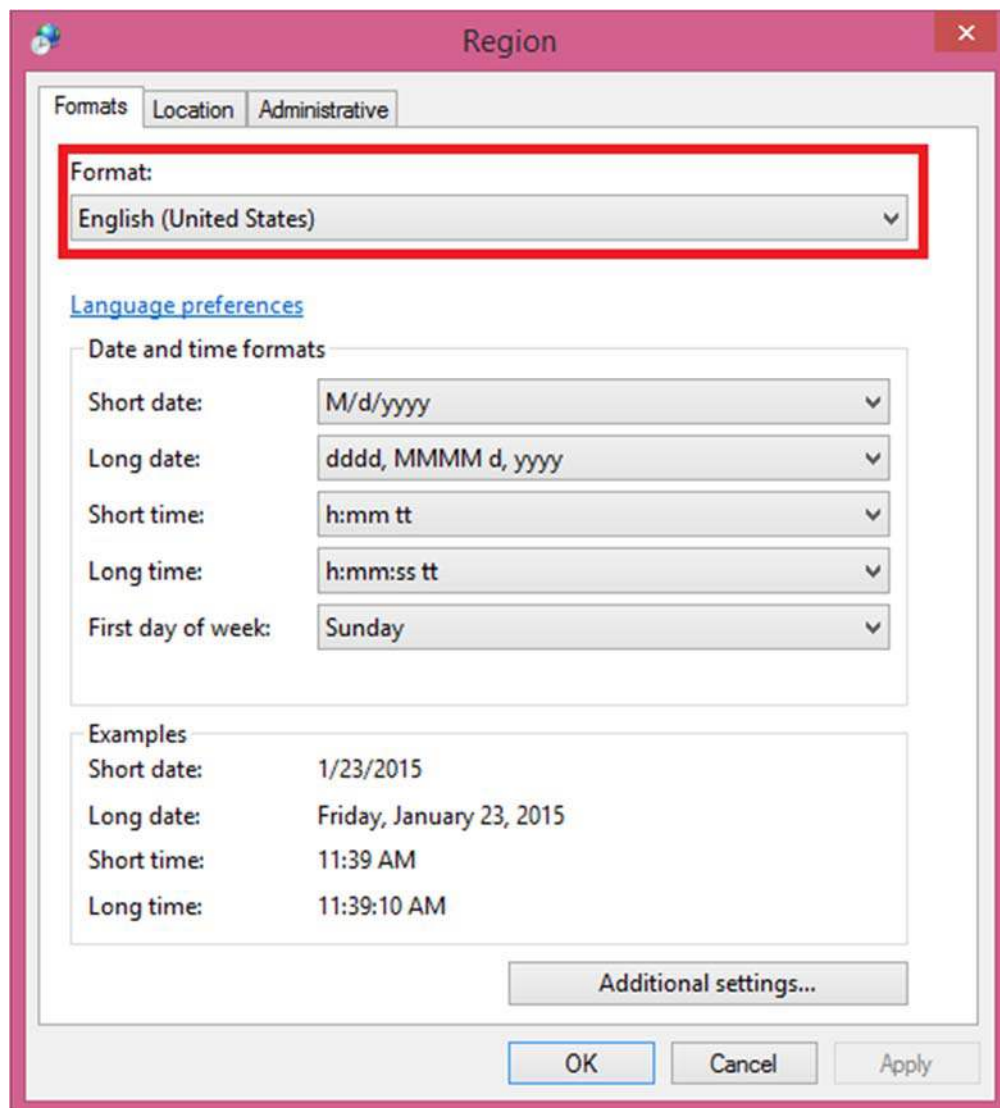
## A. Edison Arduion IDE

Download [Edison Arduion IDE\(winwos version\)](https://communities.intel.com/docs/DOC-23242) <https://communities.intel.com/docs/DOC-23242>

Extract to your local folder.

NOTE: There is a bug with Edison Arduion IDE, you have to change your PC location to U.S to avoid IDE FC.

Control Panel-->Change data, time or number formats-->Format-->English(United States)



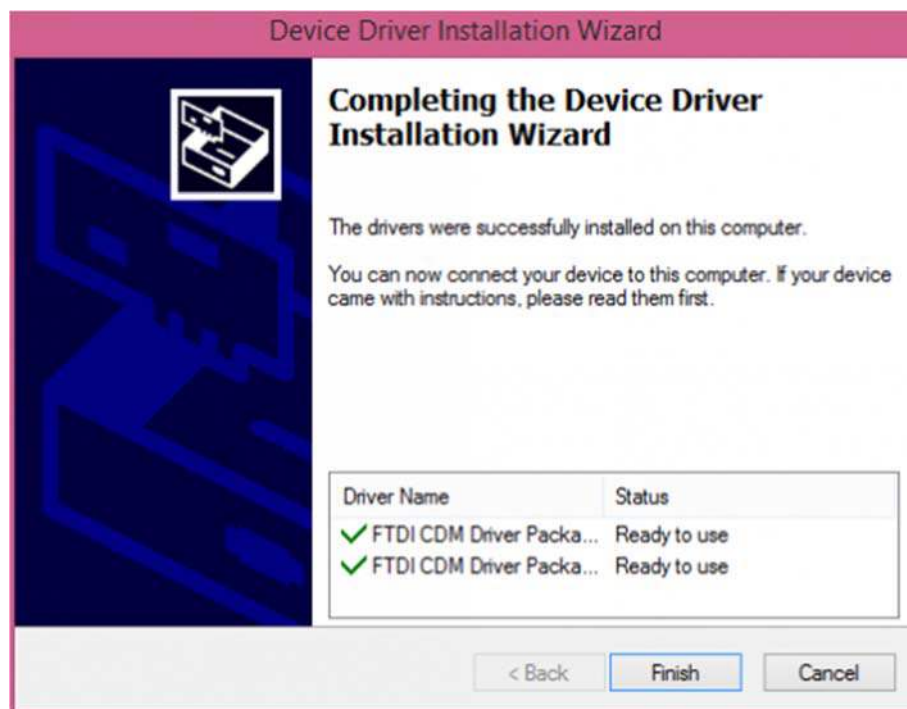
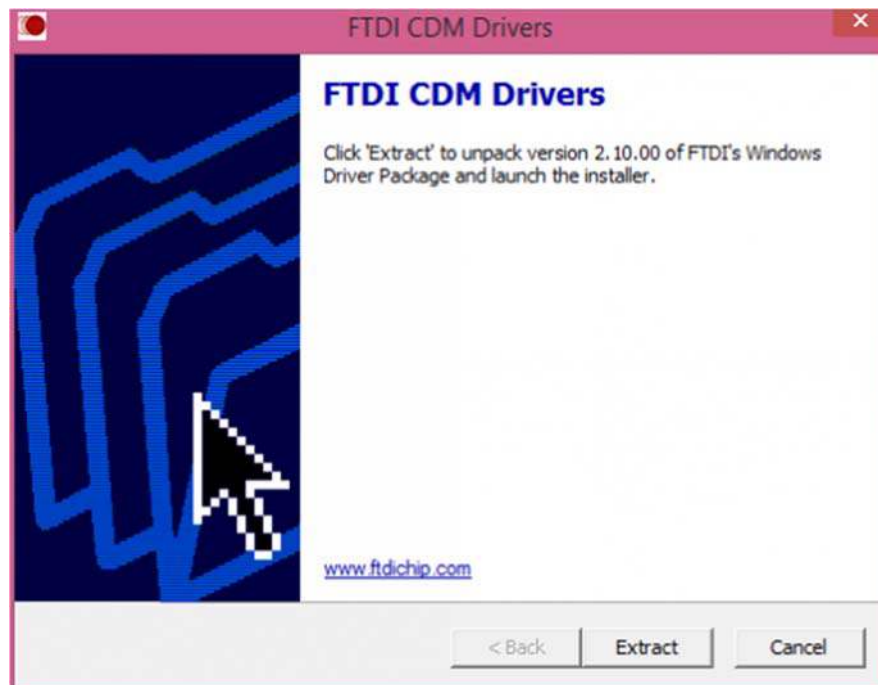
Open Edison Arduion IDE

## B. Install Driver

Download [FTDI drivers](#)

<http://www.ftdichip.com/Drivers/CDM/CDM%20v2.10.00%20WHQL%20Certified.exe>

Install CDM v2.10.00 WHQL Certified.exe



Download [Intel Edison Drivers](https://communities.intel.com/docs/DOC-23242) <https://communities.intel.com/docs/DOC-23242>

## Edison - Software Downloads

版本 28

由 sjaworski 于 2014-9-5 下午12:30 创建, 最后由 intel\_jorge 于 2014-11-14 下午5:35 修改。

### Package release version Arduino 1.5.3 - Intel 1.0.4

See the [Getting Started Guide](#) for step-by-step information on installing the software.

Download the IDE zip file for your operating system (OS). Each OS zip file includes the latest firmware so you can use the IDE to update your board.

Galileo, Edison

| Link                     | IDE Software                                     | Operating System | Intel Board     | File Size | File Type |
|--------------------------|--|------------------|-----------------|-----------|-----------|
| <a href="#">Download</a> | Arduino Software 1.5.3 - Intel 1.0.4             | Linux 32 Bit     | Galileo, Edison | 145MB     | .tgz      |
| <a href="#">Download</a> | Arduino Software 1.5.3 - Intel 1.0.4             | Linux 64 Bit     | Galileo, Edison | 149MB     | .tgz      |
| <a href="#">Download</a> | Arduino Software 1.5.3 - Intel 1.0.4             | Mac OSX          | Galileo, Edison | 112MB     | .zip      |
| <a href="#">Download</a> | Arduino Software 1.5.3 - Intel 1.0.4             | Windows          | Galileo, Edison | 159MB     | .7z       |
| <a href="#">Download</a> | Intel customized Arduino IDE 1.5.3 (source code) | N/A              | 376MB           | bz2       |           |

Source files, image and SDK's. Version: **Ret-1-Maint-WW42**. [Release Notes](#)

| Link                     | Software                     | Operating System | Board  | File Size | File Type | Notes |
|--------------------------|------------------------------|------------------|--------|-----------|-----------|-------|
| <a href="#">Download</a> | Edison Yocto complete image  | Linux - Yocto    | Edison | 105MB     | zip       |       |
| <a href="#">Download</a> | Edison SDK Linux 32          | Linux            | Edison | 380MB     | zip       |       |
| <a href="#">Download</a> | Edison SDK Linux 64          | Linux            | Edison | 382MB     | zip       |       |
| <a href="#">Download</a> | Edison SDK Mac OSX           | OSX              | Edison | 347MB     | zip       |       |
| <a href="#">Download</a> | Edison SDK Windows 32        | Windows 32       | Edison | 421MB     | zip       |       |
| <a href="#">Download</a> | Edison SDK Windows 64        | Windows 64       | Edison | 425MB     | zip       |       |
| <a href="#">Download</a> | Edison Linux source files    | Linux            | Edison | 34MB      | tgz       |       |
| <a href="#">Download</a> | Edison GPL/LGPL source files | Linux            | Edison | 603MB     | tar       |       |

### Driver Software

| Link                     | Software                   | Operating System | Board  | File Size | File Type | Notes |
|--------------------------|----------------------------|------------------|--------|-----------|-----------|-------|
| <a href="#">Download</a> | Windows Driver setup 1.0.0 | Windows          | Edison | 9MB       | exe       |       |

For older versions of the software and images (WW36), visit this [link](#).

**Note:** As Intel is committed to providing support primarily for the latest software and images, we offer access to these older versions for your convenience only.

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[https://www.dfrobot.com/wiki/index.php/File:DFR0331\\_Edison\\_driver.png](https://www.dfrobot.com/wiki/index.php/File:DFR0331_Edison_driver.png)

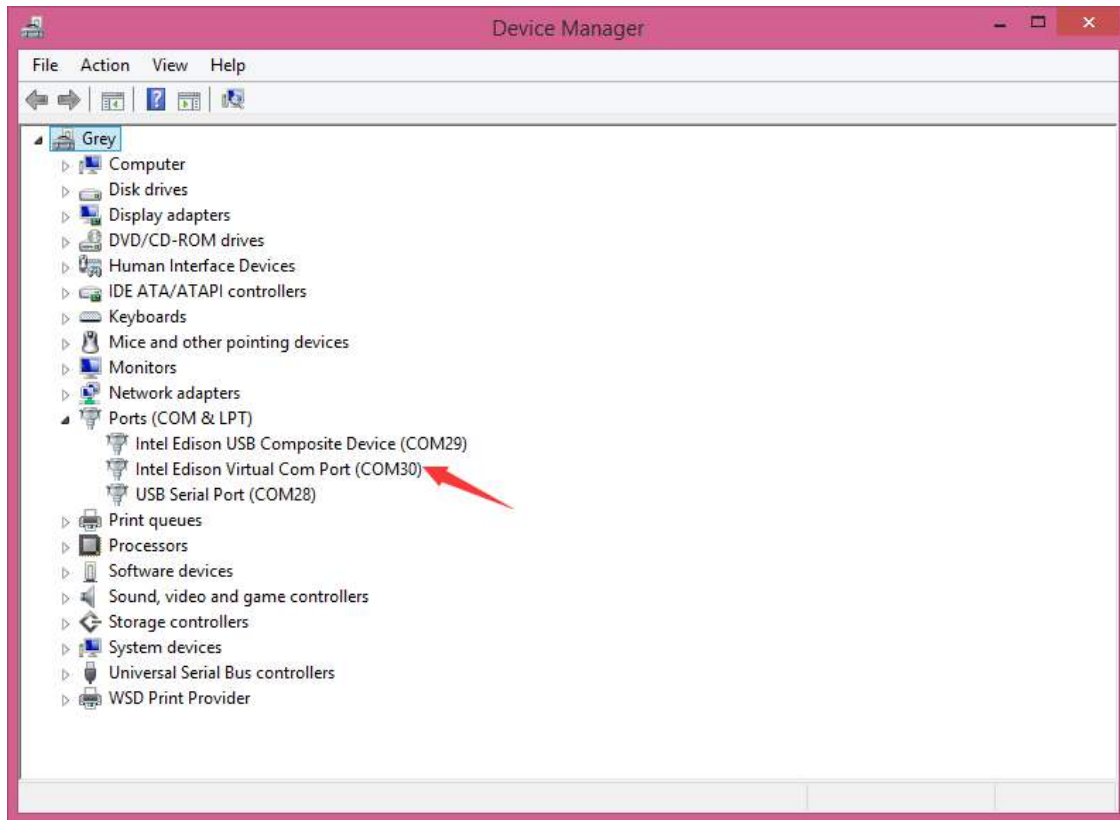
Install Edison Driver





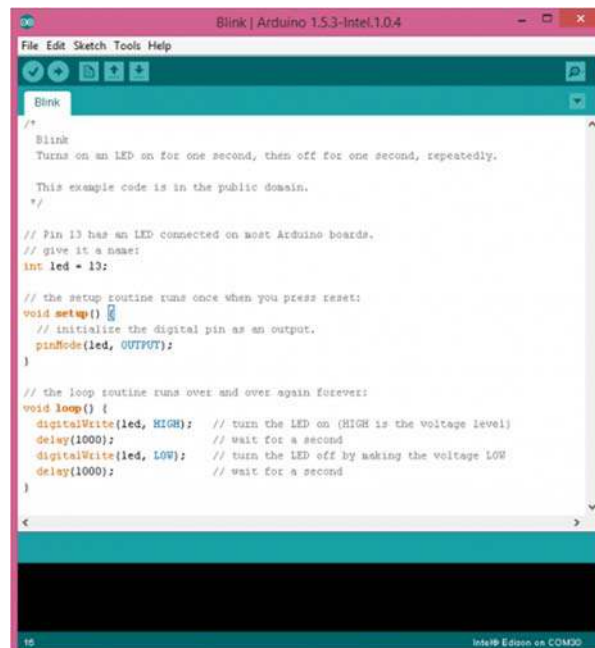


Open the Device Manager, and check Device Driver



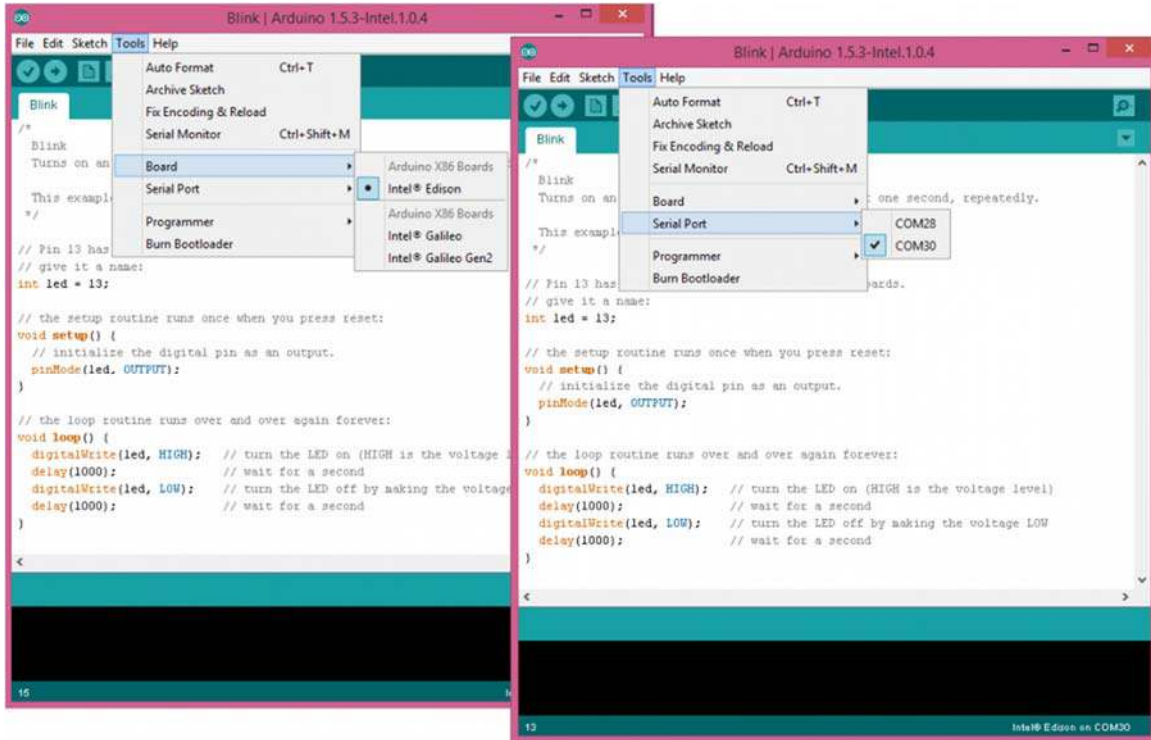
### C.Quick test with the module

Open Edison Arduino IDE and open a sample code "Blink"





Select Tools-->Board-->Intel Edison  
Select Tools-->Serial Port-->COM xx



When the uploading has been finished, the LED will be flashing once a second.

