

# 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

Extract to your local folder.

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

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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

	FTDI CDM Drivers	×
	FTDI CDM Drivers Click 'Extract' to unpack version 2.10.00 of FTDI's Windows Driver Package and launch the installer.	
4	www.ftdichip.com	

Dev	ice Driver Installation W	izard
	Completing the De Installation Wizard	vice Driver I
	The drivers were successfully in	stalled on this computer.
	You can now connect your devi came with instructions, please re	ce to this computer. If your device ad them first.
	Driver Name	Status
	✓ FTDI CDM Driver Packa ✓ FTDI CDM Driver Packa	Ready to use Ready to use
	< Back	Finish Cancel

#### Download Intel Edison Drivers https://communities.intel.com/docs/DOC-23242

#### Edison - Software Downloads

#### Package release version Arduino 1.5.3 - Intel 1.0.4

See the Retting 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.

Gauteo, Edison					
Link	IDE Software	Operating System	Intel Board	File Size	File Type
Download 🖉	Arduino Software 1.5.3 - Intel 1.0.4	Linux 32 Bit	Galileo, Edison	145MB	tgz
Download 🖉	Arduino Software 1.5.3 - Intel 1.0.4	Linux 64 Bit	Galileo, Edison	149MB	.tgz
Download 🖓	Arduino Software 1.5.3 - Intel 1.0.4	Mac OSX	Galileo, Edison	112MB	zip
Download 🖗	Arduino Software 1.5.3 - Intel 1.0.4	Windows	Galileo, Edison	159MB	.7z
Download 🕅	Intel customized Arduino IDE 1.5.3 (source code)	N/A	376MB	.bz2	

#### Source files, Image and SDK's. Version: Rel-1-Maint-WW42. 🛅 Release Notes.

Link	Software	Operating System	Board	File Size	File Type	Notes
Download 🖓	Edison Yocto complete image	Linux - Yocto	Edison	105MB	zip	
Download 🕼	Edison SDK Linux 32	Linux	Edison	380MB	zip	
Download 🖉	Edison SDK Linux 64	Linux	Edison	382MB	zip	
Download d	Edison SDK Mac OSX	OSX	Edison	347MB	zip	
Download 🕅	Edison SDK Windows 32	Windows 32	Edison	421MB	.zip	
Download 🖗	Edison SDK Windows 64	Windows 64	Edison	425MB	zip	
Download (	Edison Linux source files	Linux	Edison	34MB	tgz	
Download 🖏	Edison GPL/LGPL source files	Linux	Edison	603MB	tar	

Driver Software	ð.					
Link	Software	Operating System	Board	File Size	File Type	Notes
Download 🕅	Windows Driver setup 1.0.0	Windows	Edison	9MB	exe	

For older versions of the software and images (WW36), visit this link d

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

#### Install Edion Driver



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Choose which features of Inte you want to install.	Edison Device USB	driver 1.0.0	inte
Check the components you wa nstall. Click Next to continue.	ant to install and unc	heck the comp	onents you don't want to
Select components to install:	Intel Edison d	levice USB d	Description Position your mouse over a component to see its description.
Space required: 18.3MB	۲.	>	



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.



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