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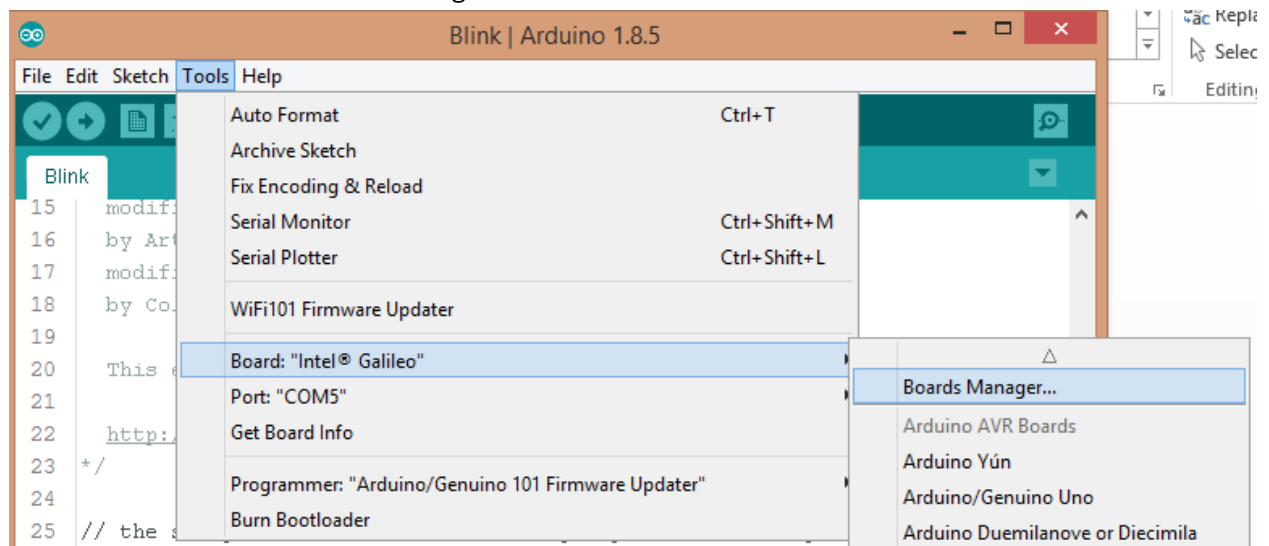


# INTEL® GALILEO GETTING STARTED GUIDE

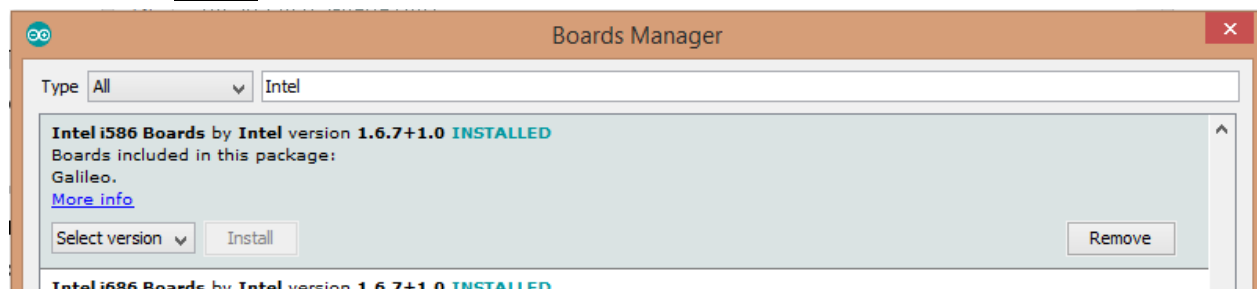
## GETTING STARTED

<https://www.arduino.cc/en/Guide/IntelGalileoGen2>

1. Install the Arduino\* IDE  
<https://www.arduino.cc/en/Main/Software#download>
2. Select Tools-> Board: -> Board Manager



3. Search all for Galileo



4. Install the Intel® i586 Boards package.
5. Plug the power cord into your Galileo Board.
6. Wait for Multiple Green LEDs to light up.
7. Plug your board into the USB port on your computer.
8. Load the File->Examples->Basics->Blink Sketch to your board.
9. Play happily with Arduino\* on your Galileo Board.
10. If you are having any issues, [Update the Driver and Firmware](#)

# INTEL® GALILEO GETTING STARTED GUIDE

## OVERVIEW

Information on power, speeds, pins, etc.

<https://www.arduino.cc/en/ArduinoCertified/IntelGalileoGen2>

## ARDUINO\* BASICS

### KITS AND INSTRUCTIONS

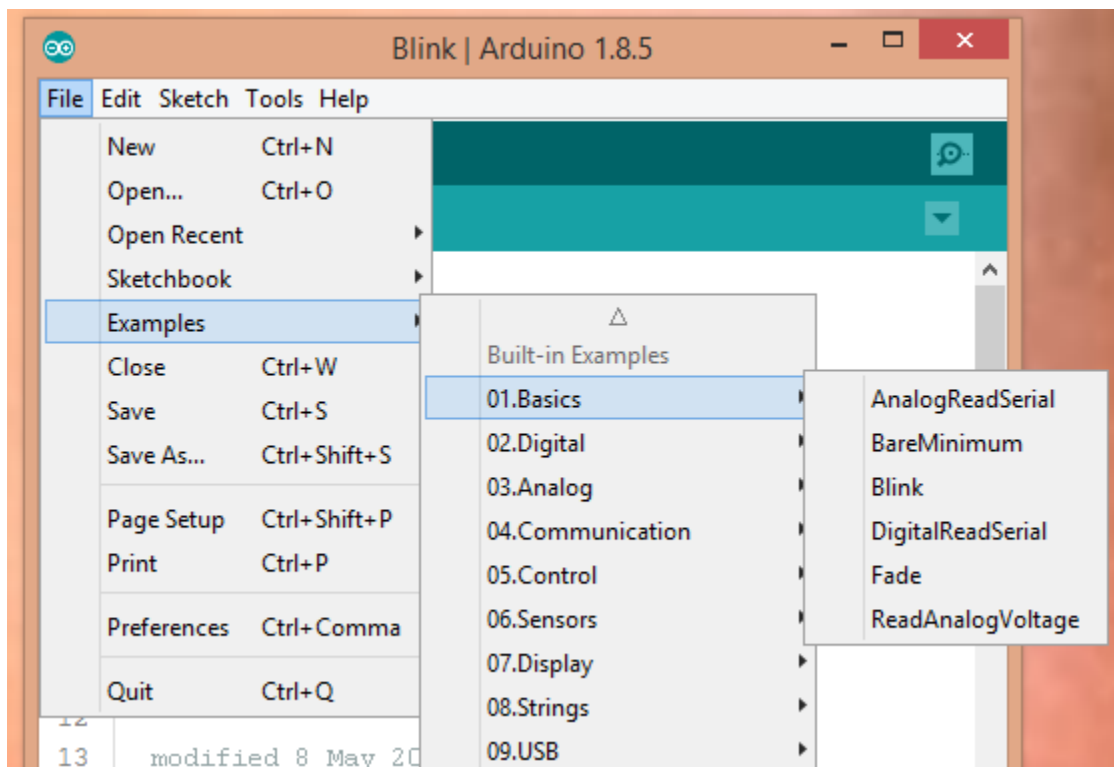
There are many kits with instructions on how to use Arduino\*.

SparkFun\* Inventors Kit is one example.

<https://learn.sparkfun.com/tutorials/sparkfun-inventors-kit-experiment-guide---v40>

### EXAMPLE CODE

The Arduino\* IDE also includes example code that is very useful.



# INTEL® GALILEO GETTING STARTED GUIDE

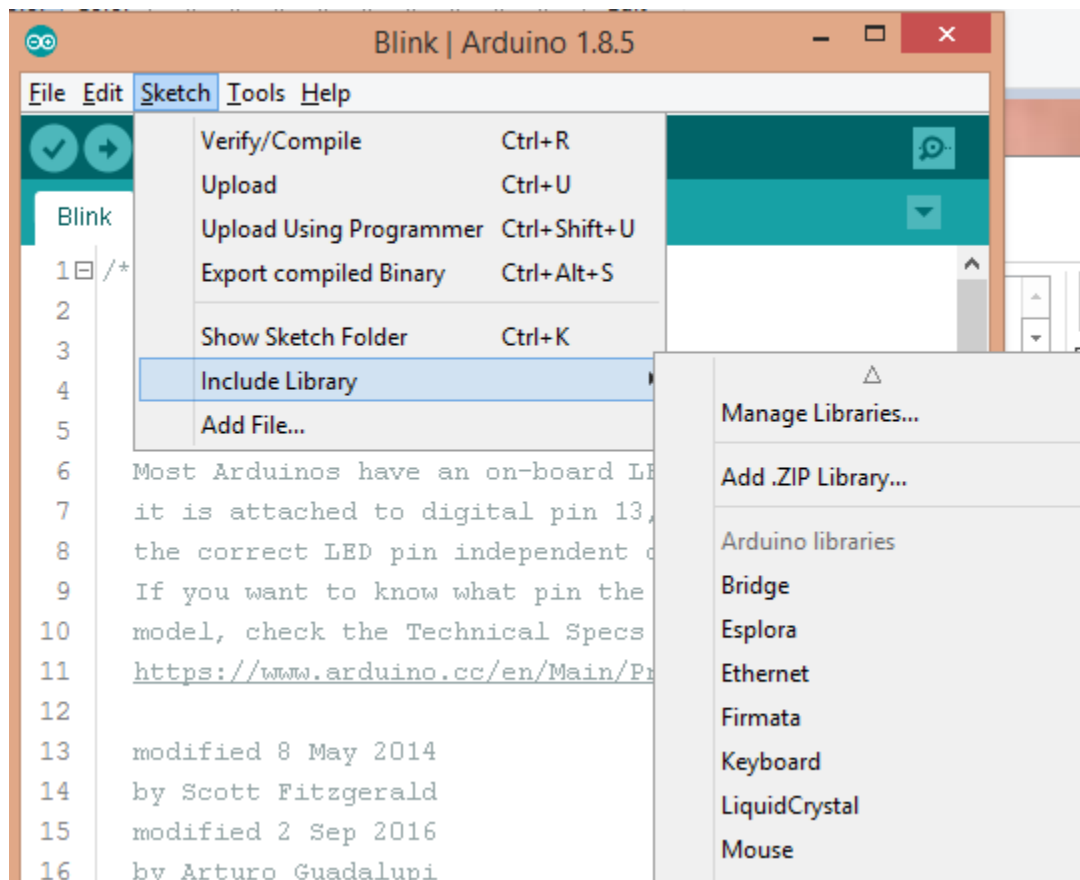
## LIBRARIES AND SHIELDS

For more complex tasks, explore the hundred so existing code libraries and shields.

Shields plug into the Intel® Galileo Board to provide new capability like Motor Controllers, GPS, or Cellular Service.

Libraries make it easy to complete complex tasks by providing simple method calls to more complex code. Common libraries include motor controllers, sensors, GPS, etc.

Libraries can be downloaded from the web directly as zip files or downloaded directly through the Arduino® IDE Manage Libraries functions.



## INTEL® GALILEO GETTING STARTED GUIDE

### LINUX

#### INSTRUCTIONS FOR INSTALLING THE LINUX IMAGE ON AN SD CARD

Galileo includes a simple Linux version out of the box. However the bigger image is much more powerful. You will need to install this image on an SD card.

<https://www.intel.com/content/www/us/en/support/articles/000006416/boards-and-kits/intel-galileo-boards.html?wapkw=galileo+image>

#### USING THE TERMINAL

<https://learn.sparkfun.com/tutorials/galileo-getting-started-guide/using-the-terminal>

<http://www.hofrock.com/connecting-to-linux/>

#### SAMPLE PROJECTS

Sample projects using the Linux and Galileo to do uniquely Galileo things.

Computer Vision, Python, USB Cameras, SSH etc

<https://learn.sparkfun.com/tutorials/galileo-getting-started-guide/bigger-linux-image>

<https://learn.sparkfun.com/tutorials/galileo-getting-started-guide/resources--going-further>

### WiFi

Galileo requires the larger [SD Card Linux Image](#) and a WiFi Card to work with WiFi.

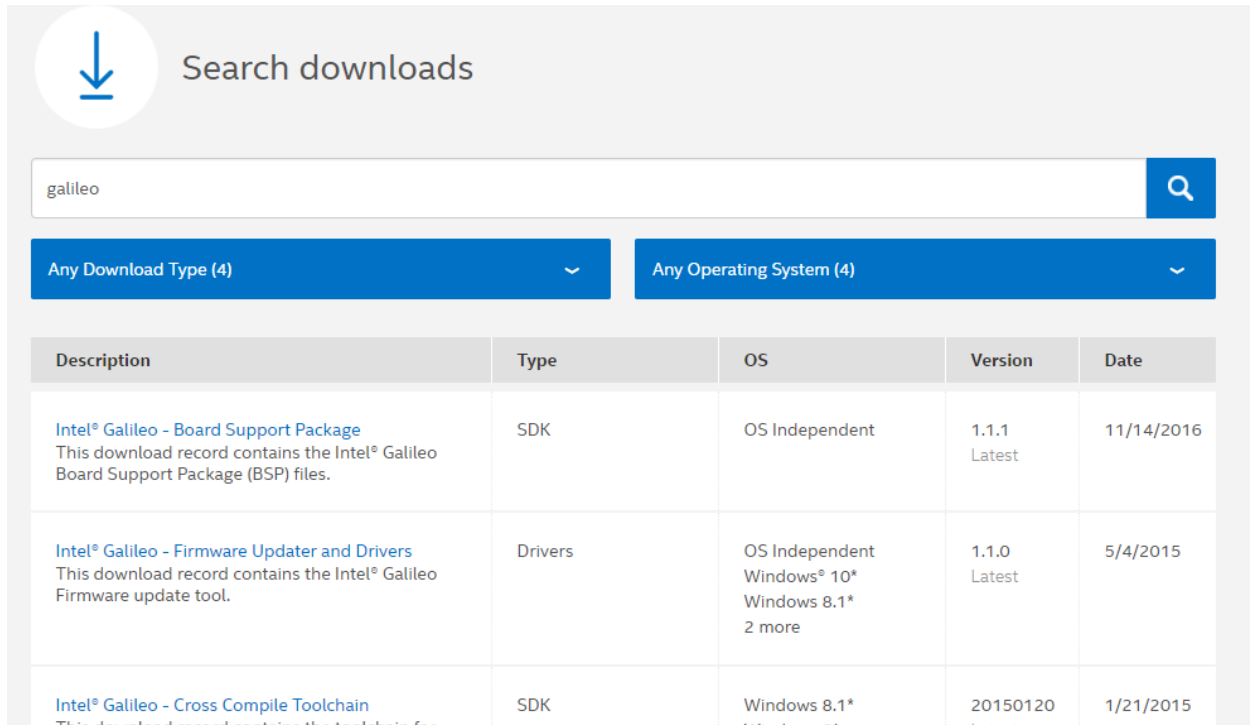
Step by Step Instructions and specifics on the cards

<http://www.hofrock.com/setting-up-wi-fi/>

# INTEL® GALILEO GETTING STARTED GUIDE

## DRIVER AND FIRMWARE UPDATES

1. Visit the link below and download the appropriate Firmware updater and Drivers  
<https://downloadcenter.intel.com/search?keyword=galileo>



The screenshot shows the Intel Download Center search interface. At the top, there is a search bar with the text 'galileo' and a magnifying glass icon. Below the search bar, there are two filter buttons: 'Any Download Type (4)' and 'Any Operating System (4)'. The main content is a table with the following columns: Description, Type, OS, Version, and Date.

Description	Type	OS	Version	Date
<a href="#">Intel® Galileo - Board Support Package</a> This download record contains the Intel® Galileo Board Support Package (BSP) files.	SDK	OS Independent	1.1.1 Latest	11/14/2016
<a href="#">Intel® Galileo - Firmware Updater and Drivers</a> This download record contains the Intel® Galileo Firmware update tool.	Drivers	OS Independent Windows® 10* Windows 8.1* 2 more	1.1.0 Latest	5/4/2015
<a href="#">Intel® Galileo - Cross Compile Toolchain</a> This download record contains the toolchain for	SDK	Windows 8.1* Windows 8*	20150120 Latest	1/21/2015

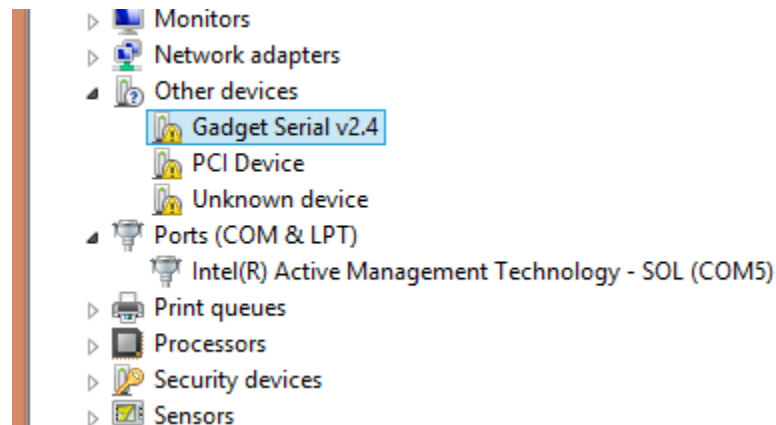
2. Follow the instructions at this link to update the driver for your Galileo Board  
<https://software.intel.com/en-us/installing-drivers-and-updating-firmware-for-arduino-windows>
3. If necessary, also update the Firmware on your board.  
You should update the firmware on any new Galileo Board the first time you use it.

## INTEL® GALILEO GETTING STARTED GUIDE

### TROUBLESHOOTING

#### ARDUINO\* IDE CAN'T FIND MY GALILEO BOARD

In Device Manager, you may see the following indicating that your computer does not recognize your Galileo board. Follow the instructions at [Driver and Firmware](#) to fix this issue.



#### MY GALILEO BOARD FORGETS MY SKETCH WHEN I UNPLUG IT.

Use an SD card with your Galileo so that it will continue to run your sketch between power cycles.

<https://www.intel.com/content/www/us/en/support/articles/000006416/boards-and-kits/intel-galileo-boards.html>

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