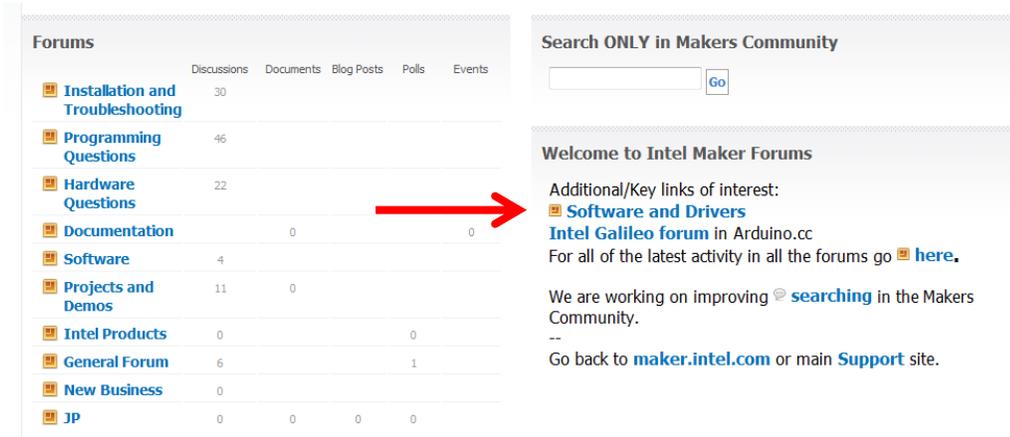


## Intel® Galileo Wireless Card Installation and Setup

### Section I: Downloading and Setting up micro-SD

Section I will cover how to download the files to set up the micro-SD. The micro-SD setup is mandatory for the wireless card to function.

1. Go to <https://communities.intel.com/community/makers> and click on “Software and Drivers”.

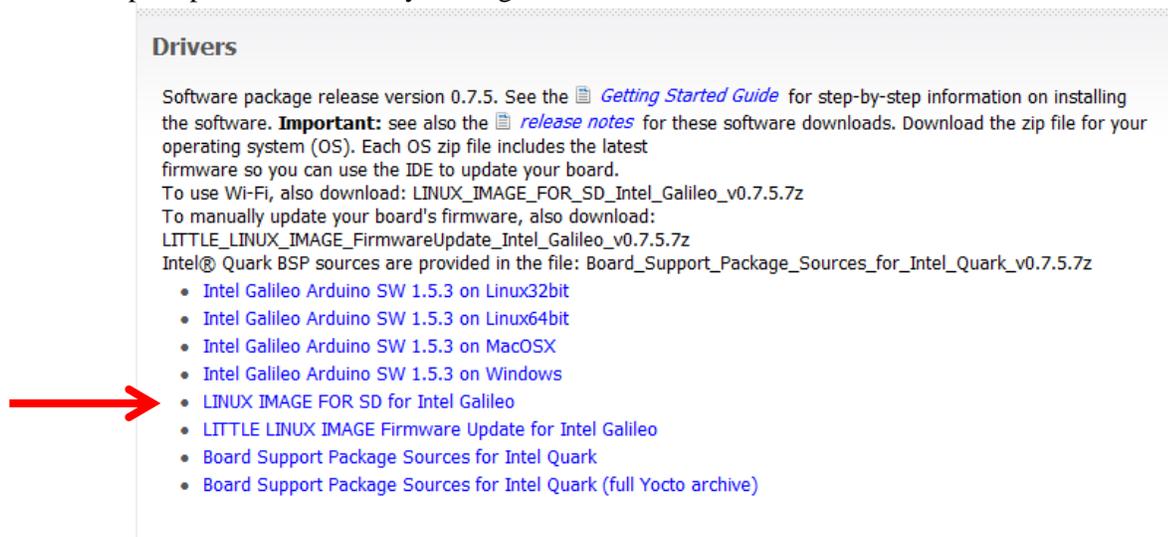


The screenshot shows the Intel Makers Community forums interface. On the left, there is a 'Forums' sidebar with a table of categories and their respective counts:

	Discussions	Documents	Blog Posts	Polls	Events
Installation and Troubleshooting	30				
Programming Questions	46				
Hardware Questions	22				
Documentation	0	0			
Software	4				
Projects and Demos	11	0			
Intel Products	0			0	
General Forum	6			1	
New Business	0				
JP	0	0	0	0	

On the right side of the page, under 'Welcome to Intel Maker Forums', there is a section titled 'Additional/Key links of interest:' which includes a link to 'Software and Drivers' and 'Intel Galileo forum in Arduino.cc'. A red arrow points from the 'Documentation' link in the sidebar to this 'Software and Drivers' link.

2. Under the Drivers section click on “LINUX IMAGE FOR SD for Intel Galileo” You will be prompted with a security message. Save and extract files.



The screenshot shows the 'Drivers' section of the Intel website. It contains the following text:

Software package release version 0.7.5. See the [Getting Started Guide](#) for step-by-step information on installing the software. **Important:** see also the [release notes](#) for these software downloads. Download the 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.

To use Wi-Fi, also download: `LINUX_IMAGE_FOR_SD_Intel_Galileo_v0.7.5.7z`

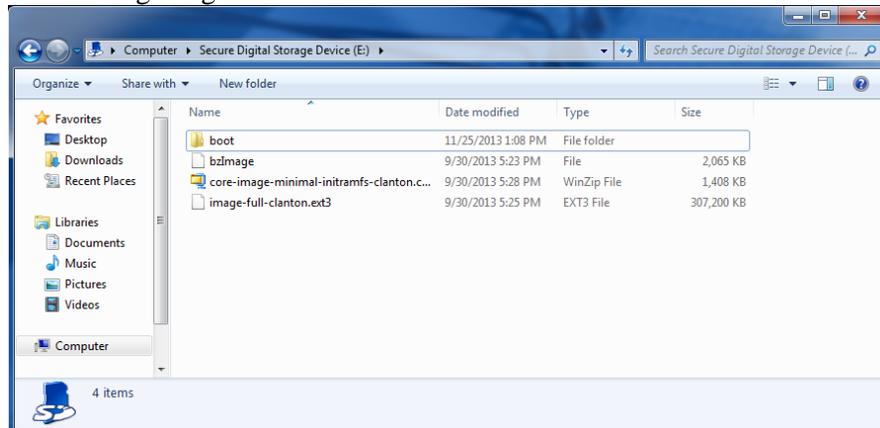
To manually update your board's firmware, also download: `LITTLE_LINUX_IMAGE_FirmwareUpdate_Intel_Galileo_v0.7.5.7z`

Intel® Quark BSP sources are provided in the file: `Board_Support_Package_Sources_for_Intel_Quark_v0.7.5.7z`

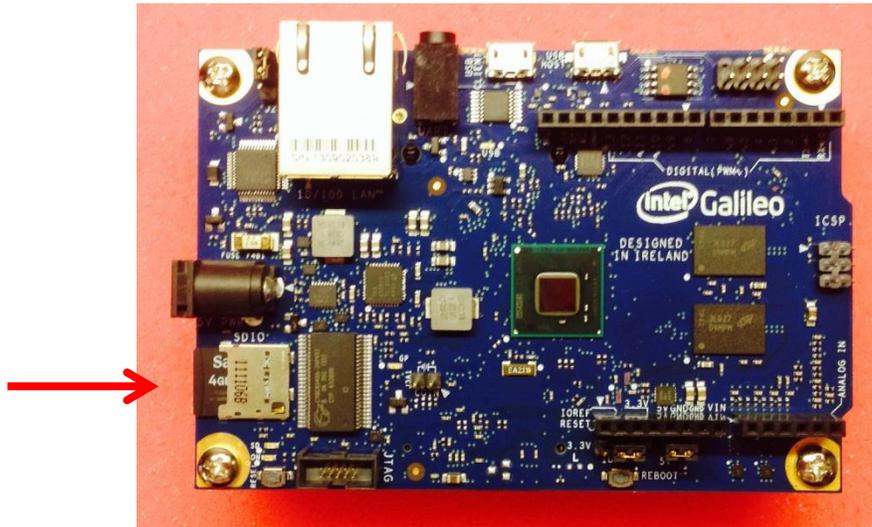
- [Intel Galileo Arduino SW 1.5.3 on Linux32bit](#)
- [Intel Galileo Arduino SW 1.5.3 on Linux64bit](#)
- [Intel Galileo Arduino SW 1.5.3 on MacOSX](#)
- [Intel Galileo Arduino SW 1.5.3 on Windows](#)
- [LINUX IMAGE FOR SD for Intel Galileo](#)
- [LITTLE LINUX IMAGE Firmware Update for Intel Galileo](#)
- [Board Support Package Sources for Intel Quark](#)
- [Board Support Package Sources for Intel Quark \(full Yocto archive\)](#)

A red arrow points to the 'LINUX IMAGE FOR SD for Intel Galileo' link in the list.

3. After the files were extracted the files to the blank micro-SD card. The micro-SD card should look like the following image.



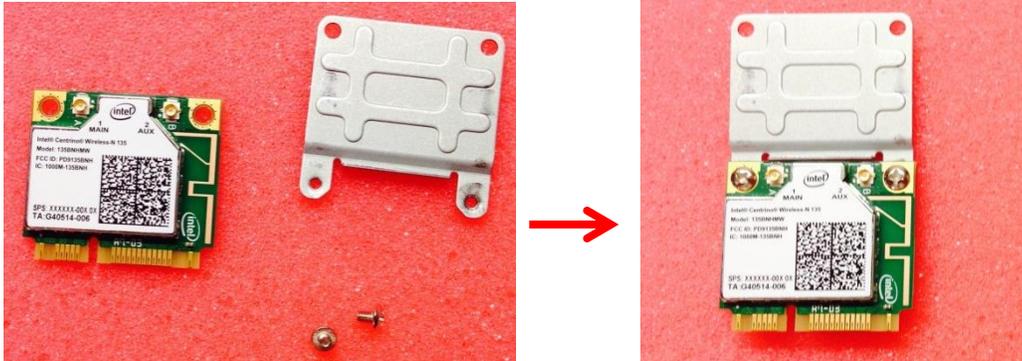
4. Insert the micro-SD card into the micro-SD slot on the Galileo.



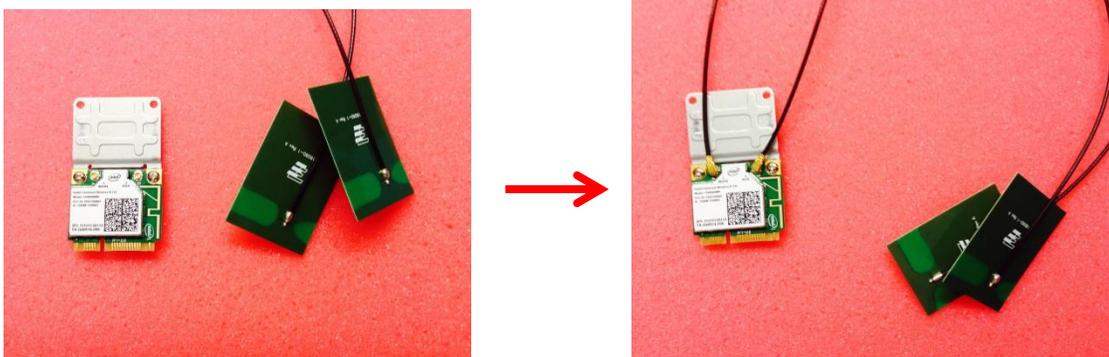
## Section II: Installing Wireless Card to Mini PCI Express slot

Section II will cover how to properly install the wireless card into the Mini PCI Express slot on the Galileo. For the purpose of this tutorial I will be using the Intel Centrino® Wireless-N 135.

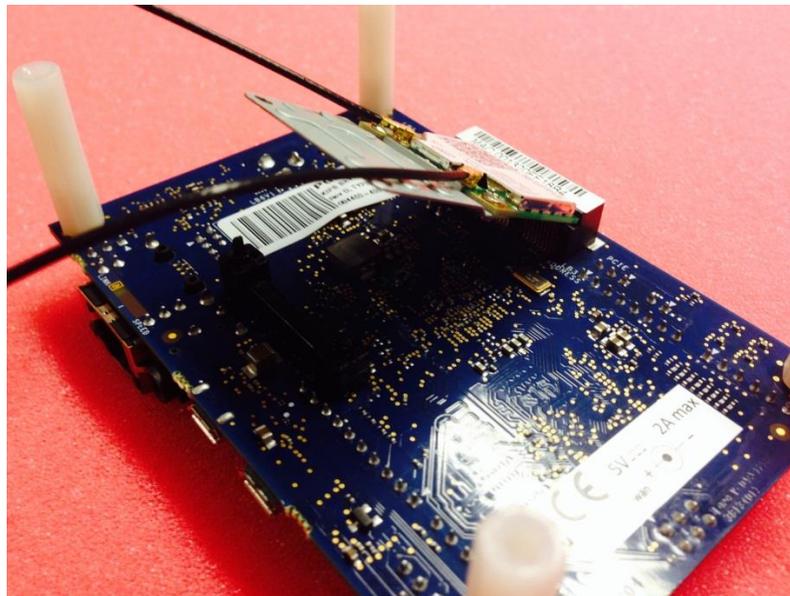
1. Assemble the wireless card with the aluminum plate to help keep the wireless card in place on the Galileo.



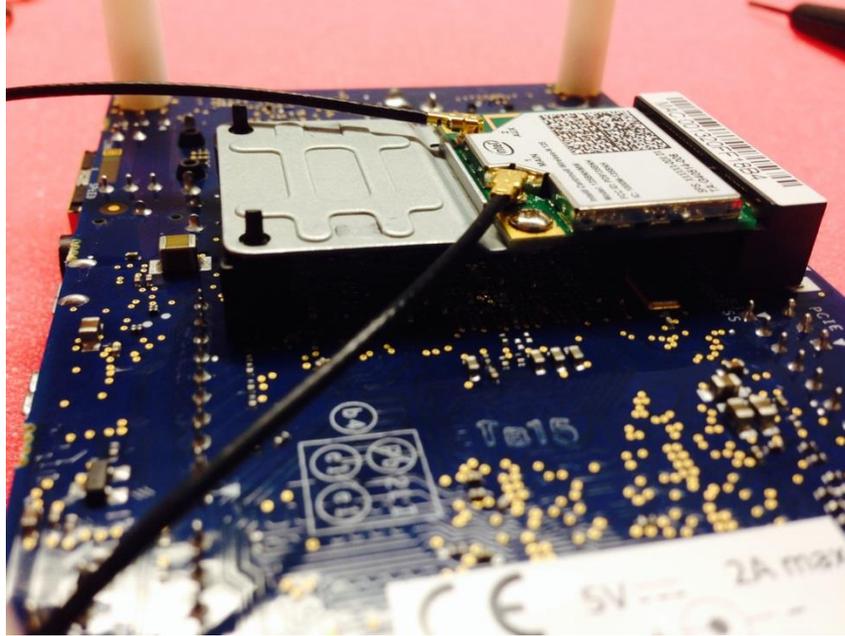
2. Connect the antennas to the wireless card.



3. Insert wireless card to the Galileo Mini PCI Express slot.



- Once the wireless card is inserted into the Mini PCI Express slot, push the wireless card gently towards the Galileo board until locked in place.



### Section III: Uploading and Testing Wireless Card

Section III will cover how to upload the example and test the wireless card.

- Connect the Power supply to the Galileo Board.
- Connect the USB cable from the computer to the USB Client port on the Galileo.
- Open Arduino IDE 1.5.3
- Under File → Examples → Wifi select “ScanNetworks”
- Open Arduino IDE under Tools → Board select Intel® Galileo
- Under Tools → Serial Port select the Com # where the Galileo is connected to.
- Upload to Galileo by clicking the upload button. 
- Click on the Serial Monitor button to preview.  The serial Monitor screen will print out wireless signals detected.



```
COM7
8) NETGEAR23   Signal: -59 dBm Encryption: WPA2
9) Guest       Signal: -49 dBm Encryption: None
10) LabWLAN    Signal: -47 dBm Encryption: WPA2
```