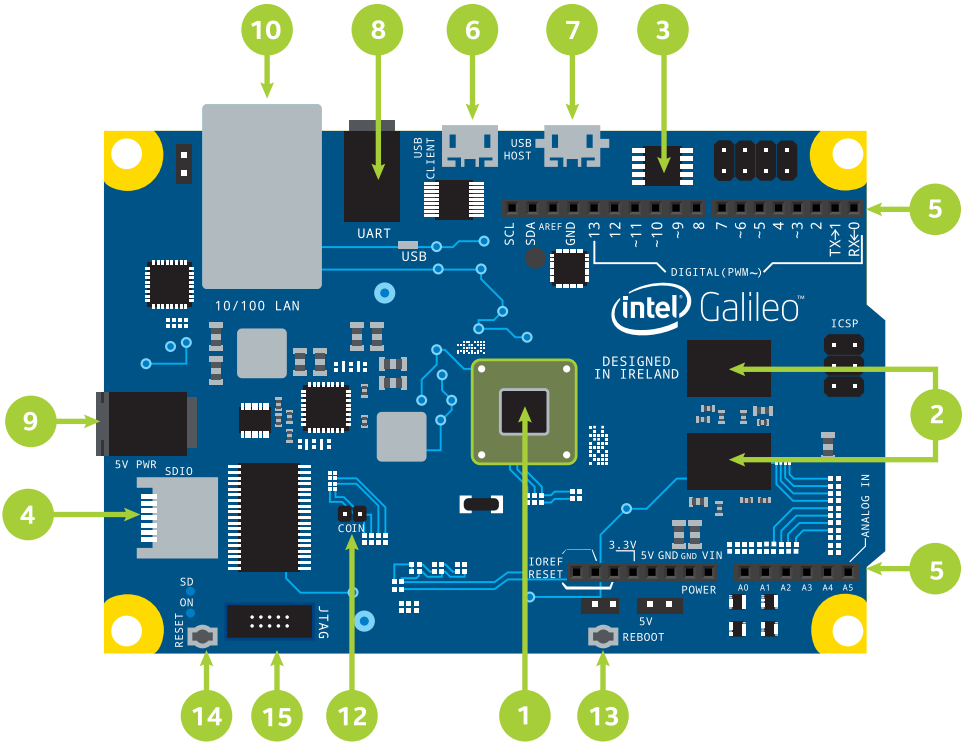
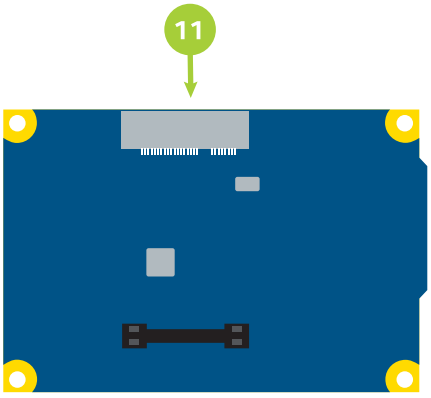
Let's Connect!

DOWNLOAD CODE
https://github.com/GalileoWorkshop/IESC

Tour of the Board





Back View

11 ***Mini PCI Express Slot***
If you want to make your network connection wireless, you can connect a WiFi card to the Mini PCI Express slot on the back of the board. This slot can also accommodate cards that offer additional functionality such as more storage space, GSM access for connecting to cellular networks, Bluetooth for wireless device connectivity, and much more.

1 ***Processor***
The processor is the brains of the whole operation. Just like the central processing unit, or CPU, on your computer, it carries out all the instructions in your program by making calculations and reading or writing data in memory.

2 ***Random Access Memory (RAM)***
Random access memory, or RAM, is where Galileo keeps running programs and keeps track of data that's being used by those programs.

3 ***Flash Memory***
The flash memory acts like the hard drive of Galileo -this where the board's software and operating system are stored. There is between 256 and 512 kilobytes of space left over for your programs.

4 ***MicroSD Card Slot***
If you need more space for larger programs or to store more data, you can insert a microSD card into this slot.

5 ***Arduino Expansion Pins***
Using these pins, you'll be able to connect to the inputs and outputs on the Galileo. You'll either use jumper wires to connect the pins to a breadboard for prototyping, or you'll use an Arduino shield to add functionality to your board.

6 ***USB Client Port***
You'll use this port to connect your Galileo to the USB port on your computer. Once it's connected, you can upload your code and communicate with it. Always connect the power supply before plugging the Galileo into your computer over USB.

7 ***USB Host Port***
This port allows you to connect USB computer peripherals to your Galileo. It could be accessories such as webcams, sound devices, storage, and much more.

8 ***Serial Port***
This may look like a headphone jack, but it's not meant for audio. It's actually a serial port, used for interacting with the Galileo's Linux operating system via a text-based command line environment.

9 ***Power Input***
This is where you'll plug in Galileo's power adapter. You must plug in the AC adapter when using Galileo.

10 ***Ethernet Port***
The Ethernet port on the board will let you connect it to a wired network so that it can communicate with other computers and devices on the network, or access the Internet.

12 ***Clock Battery Power***
This connector will let you wire up a small 3 volt coin cell battery to the Galileo so that the processor can keep track of the date and time of day even when the board is not connected to 5 volts.

13 ***Reboot Button***
This button will reboot the board, including Galileo's Linux operating system.

14 ***Reset Button***
This button will restart your code and also send the reset signal to any shield attached to the expansion header. Galileo's Linux operating system will remain running as normal and won't restart.

15 ***JTAG Header***
This 10 pin connector is mostly used by electrical engineers or advanced hobbyists to test and debug boards.