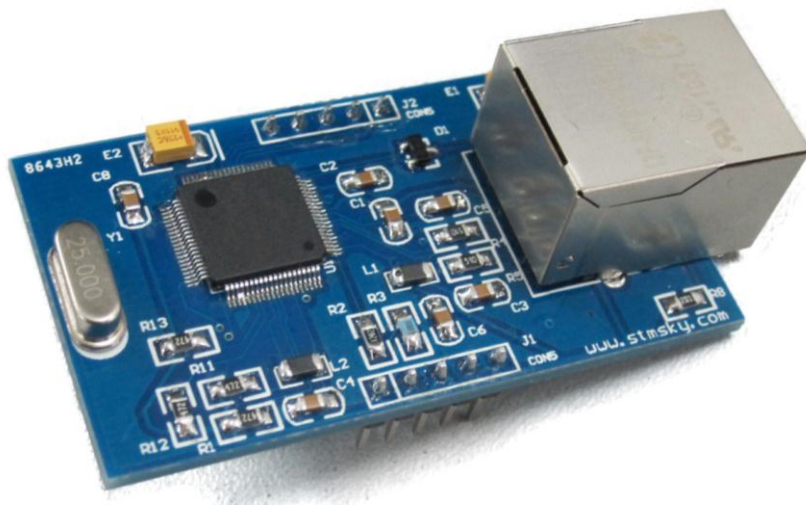


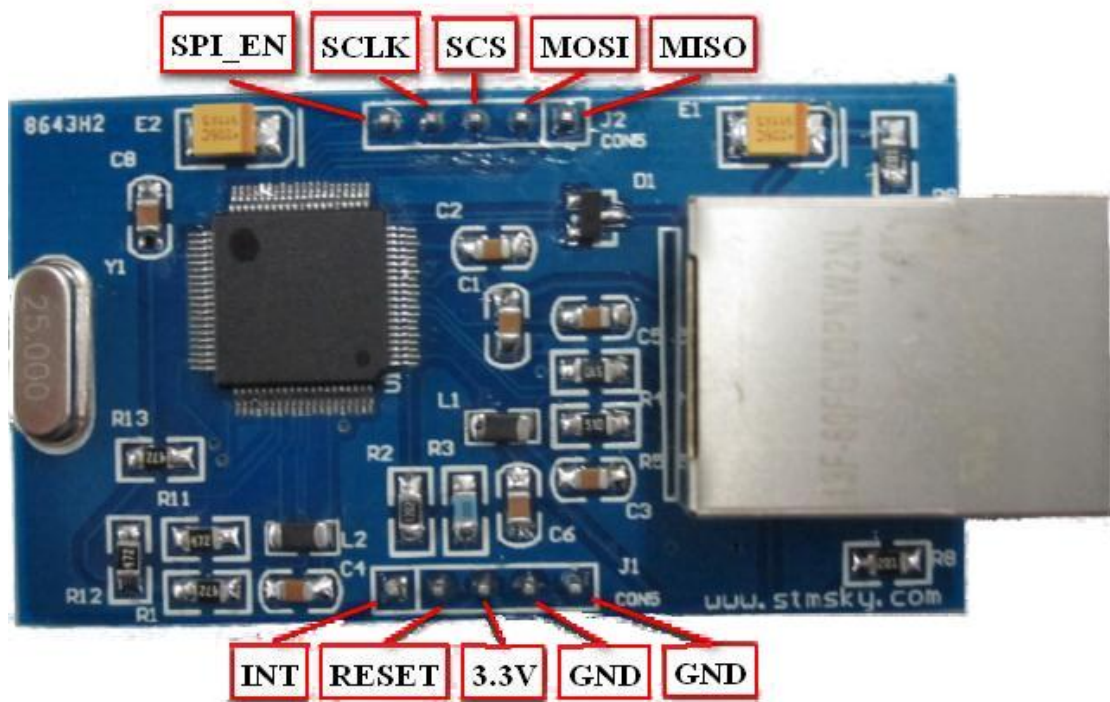
SW5100 Test with Arduino

Test Information

The SW5100 is an Ethernet module with the core chip W5100 from WIZnet company. It supports TCP, UDP, ICMP, IGMP, IPv4, ARP, PPPoE, Ethernet.



In order to use the module correctly, you should understand the pins of it first.



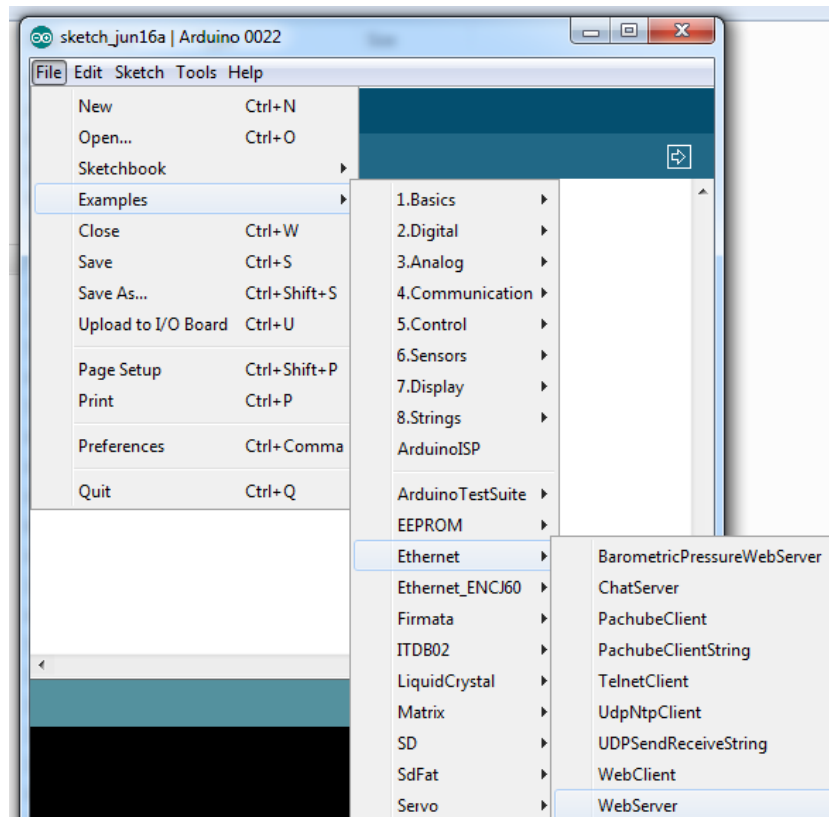
To use it on the Arduino, you just connect the SPI_EN pin to 5V or 3.3V with a pull-up resistor, connect SCLK, SCS, MISO, MOSI to the SPI port of Arduino, connect the INT pin to the digital 2 of Arduino, connect the RESET pin to the RESET of Arduino, and

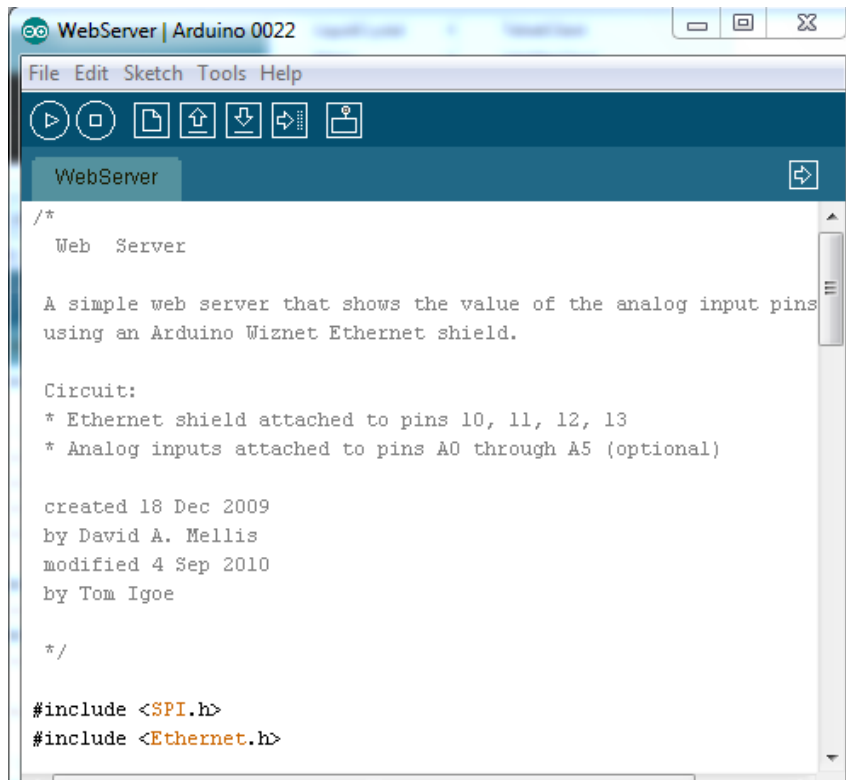
don't forget to connect the VCC (3.3V) and GND. But if you have a [Communication shield](#), the connection could be much easier. All you need to do is just plug the pins into the two rows of slots marked W5100 on the communication shield, and the connection is done.



Connect this module with PC via net cables.

Open the Arduino IDE, find the example **WebServer**:





Change the code:

```
byte mac[] = { 0xDE, 0xAD, 0xBE, 0xEF, 0xFE, 0xED }; // set the MAC address
```

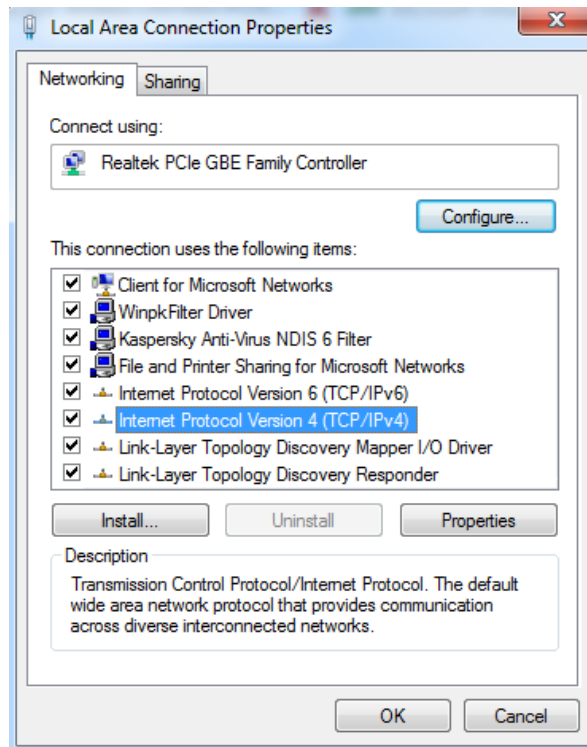
```
byte ip[] = { 192,168,1,177 }; //Set IP
```

```
Server server(80); //Set port, usually 80
```

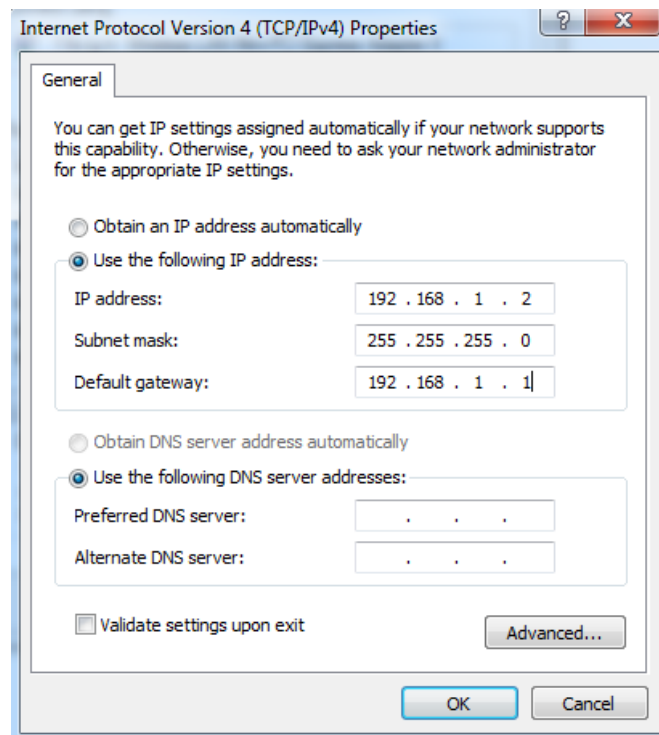
Upload the program to Arduino.

Please do not forget to configure the IP on your local PC:

On Windows OS, open **Control Panel** → **Network and Internet** → **Network Connection**, double click **Local Area Connection** (the one your ENC160 module connected to)

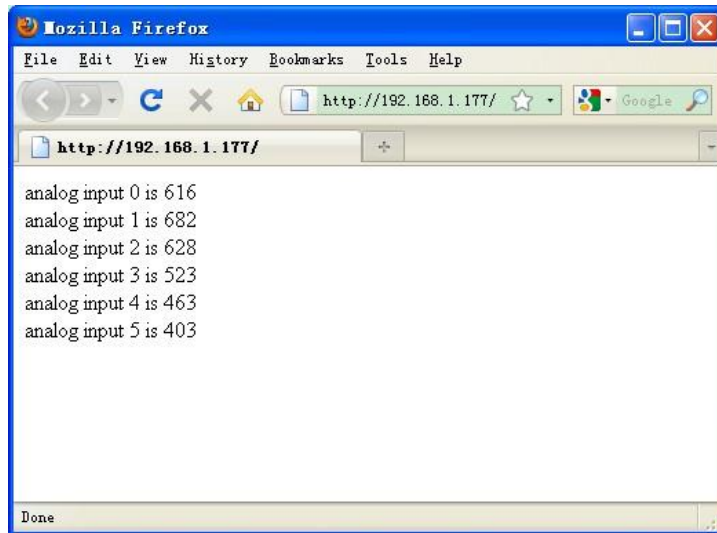


Click **Internet Protocol Version 4 (TCP/IPv4)** and then **Properties**



Click **OK** to apply.

Open one browser and input: <http://192.168.1.177:80/>



Disclaimer and Revisions

The information in this document may change without notice.

Revision History

Rev.	Date	Author	Description
A	June. 12 th , 2011	Wilson Shen	Initial version