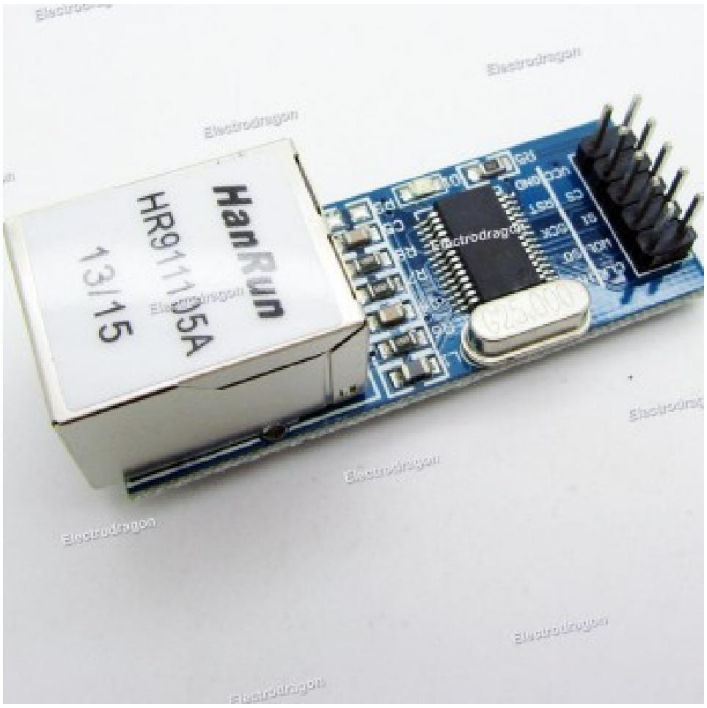
Ethernet Module ENC28J60



Brief introduction

ENC28J60 Ethernet Module utilizes the new Microchip ENC28J60 Stand-Alone Ethernet Controller IC featuring a host of features to handle most of the network protocol requirements.

The board connects directly to most microcontrollers with a standard SPI interface with a transfer speed of up to 20MHz. It has on-board RJ-45 connector, Built-in isolation transformer RJ45 connectors

Product Description

1- onboard ENC28J60/SS chips, SSOP28 package (ENC28J60-I/SO)

2- on-board 25MHZ crystal

3- on-board isolation transformer RJ45 connector HR911105A

4- 5v OR 3.3v pin power supply, on-board 3.3V power supply chip

5- SPI communication interface

6- 2*6-row pin connector

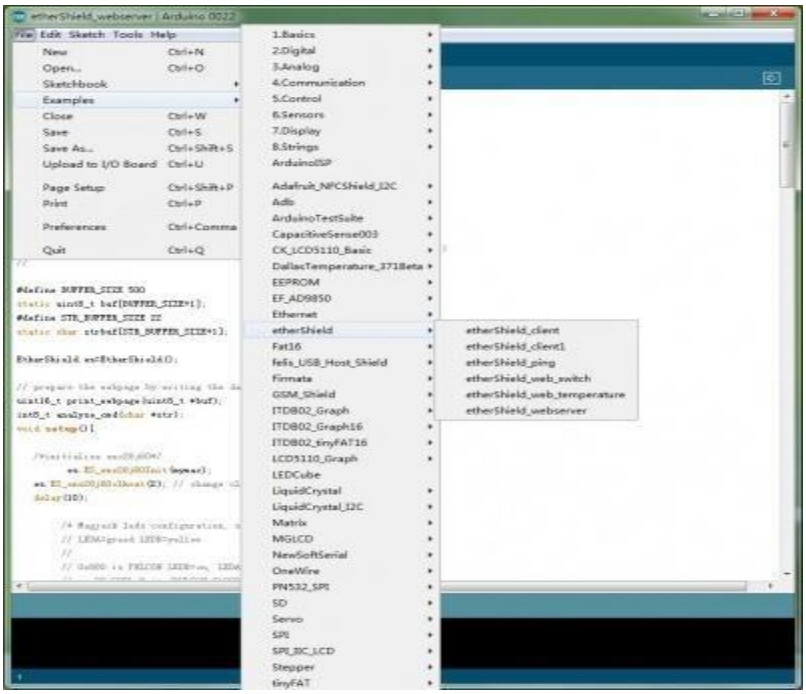
7- Dimension 56(mm) x 34(mm)

Pin definition and Rating

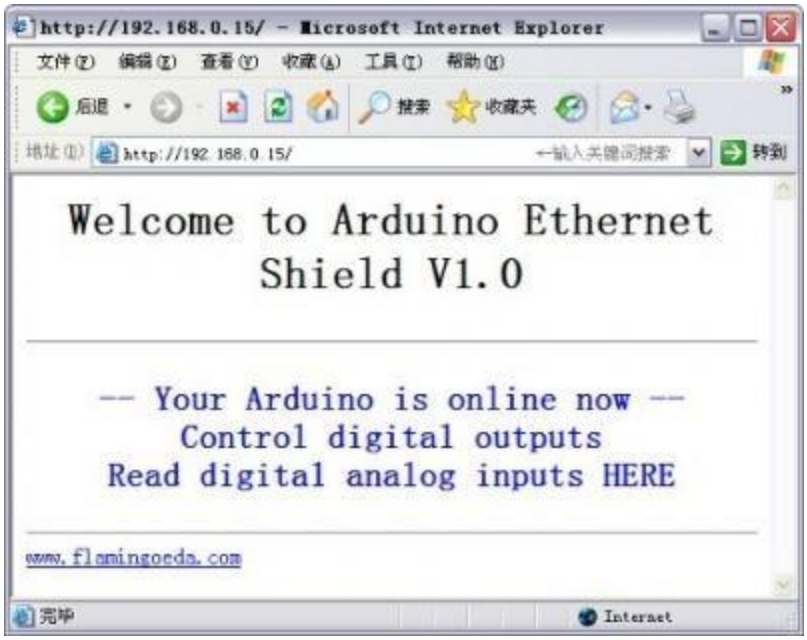
1 CS	2 RST
3 SI	4 SCK
5 INT	6 SO
7 NC	8 CLK
9 VIN / VCC	10 GND

Arduino as Ethernet Web Server

- Download the ENC28J60 library. Unzip the library to IDE library.
- Connect the ENC28J60 Mini Ethernet Module to Arduino, notice the switch is choosing
  3.3V or 5V. The IO as below: CS - 10 , SI - 11 , SO - 12 , SCK - 13
- Select the IDE arduino-xxx/example/etherShield/etherShield_webserver.



- Plugin the USB to Arduino , and then input the IP such as : http://192.168.1.15/. It will show as below informaion.



Schematic