**Arduino Ethernet shield comparison**

**Arduino Ethernet shield original**

More expensive, 24 EUR, but works with library included in development soft.

At moment of writing was no DHCP library only static IP, which however makes sense for webserver.

DNS support.

Simple webpage works OK. For example displays analog input values.

Need external power supply. Power usage 1.3W from 9V. Quite much. Chip is hot.

Has a SD card for data logging or file server. Missing RTC clock.

Credit card size homeserver:

<http://www.instructables.com/id/A-credit-card-sized-Ethernet-Arduino-compatable-co/>

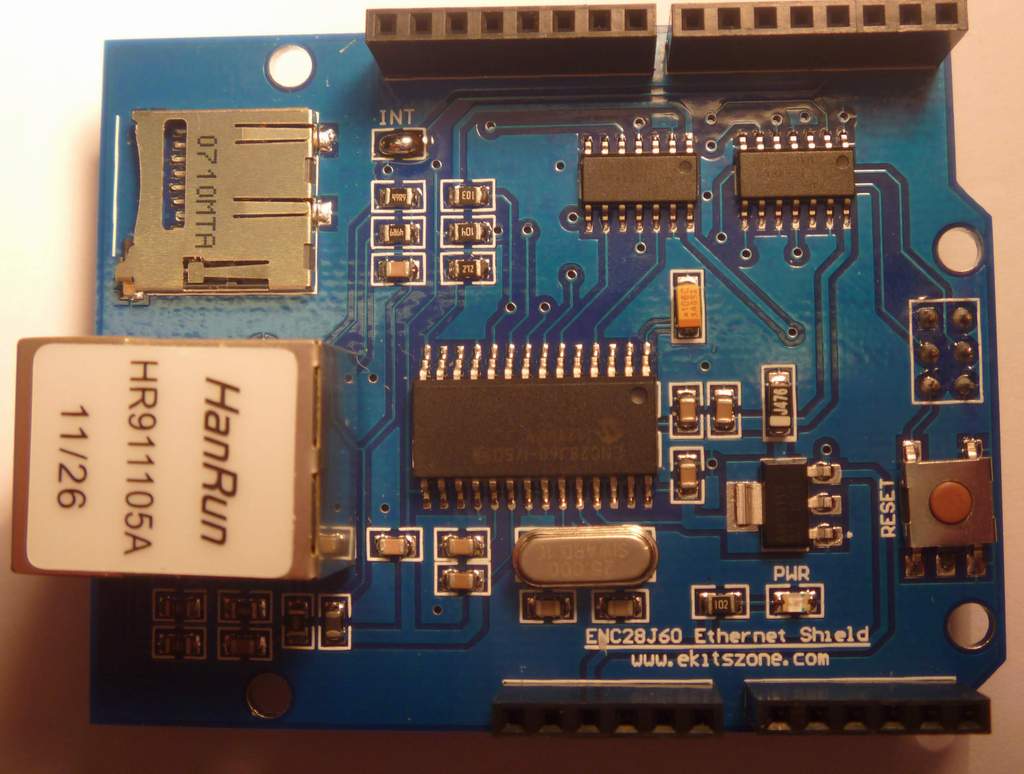
dhcp could not compile. Worked with older SDK versions. But older version does not run on windows

http://gkaindl.com/software/arduino-ethernet/dhcp

Twitter

<http://www.instructables.com/id/Displaying-Twitter-feed-without-a-PC/>

**Arduino Ethernet shield with ENC 28J60 chip and SD card**



Power usage 0…0.3W. Very good! SD card did not try. Practically zero boot time. Driver from   
[www.Ekitszone.com](http://www.Ekitszone.com)  
[www.nuelectronics.com](http://www.nuelectronics.com)

The card from Ebay has no exact datasheet online. Did not work at the beginning. Troubleshooted schematic, found MISO signal shorted. Worked with both Duemillanove and Uno also with USB power cord.

Can make nice webserver to switch on LED, measure temperature using DS18B20. (Did not work with DS18B20P) or webclient uploading data to a big server.

Super Arduino servers:  
<http://arduserver.com/a1demos.htm>

Here can check webpage for errors  
<http://validator.w3.org/>

Troubleshooting ENC28J60 Ethernet shield that had a bad connection