AZL ARDUINO WIFI SHIELD RN171



Description

This Wifi Shield utilizes a RN171 wifi module to provide your Arduino with serial Ethernet's function and adds storage to your Arduino project . It features an independent antenna which can cover a wider range and transmit stronger signals. With supports for common TCP, UDP and FTP communication protocols, this Wifi Shield can meet needs of most wireless network projects, like smart home networks, robot controls or personal weather stations, etc. We prepared an

easy and convenient command set for this shield so that you can use neat and concise code to run the function. If you use the wifi function, it takes two pins to hook your device up to 802.11b/g wireless networks. If you use the storage, it takes SPI and a select pin to access to the SD.

Features

- Arduino and Arduino Mega compatible
- Host Data Rate up to 1 Mbps for UART, 2 Mbps over SPI slave
- UART serial port of RN171 on the Shield can be connected to Arduino by jumpers
- SPI pin of RN171 is just breakout
- Support SD card 2GB and 4GB.
- Secure WiFi authentication WEP-128, WPA-PSK (TKIP), WPA2-PSK (AES)
- Built-in networking applications: DHCP client, DNS client, ARP, ICMP ping, FTP, TELNET, HTTP, UDP, TC

Items	Min	Typical	Max	Unit
Voltage	3.3	5	5.5	v
Current	25	80	500	mA
Transmit power	0-10			dBm
Frequency	2402~2480			MHz
Network rate	1-11 Mbps for 802.11b/6-54Mbps for 802.11g			
Supported Card Type	SD card(<=2G); Micro SD card(<=2G);			

Specification

Interface



Usage

hardware Installation

Assemble these parts together like the picture below. and mount the shield onto your Arduino



Software Programming

First you have to make sure that Arduino1.0 has already been installed on your computer.



```
{
   Serial.print(Wifly.readFromSocket());
   }
   if(Serial.available())
   {
    Wifly.print((char)Serial.read());
   }
}
```

You need to do some modifications on this sketch according to your specific configuration.