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Controller >

DFR0182 Wirless GamePad V2.0

DFR0100 DFRduino Beginner Kit For Arduino V3

DFR0267 Bluno

DFR0282 Beetle

DFR0283 Dreamer Maple V1.0

DFR0296 Bluno Nano

DFR0302 MiniQ 2WD Plus

DFR0304 BLE Wireless Gamepad V2

DFR0305 RoMeo BLE

DFR0351 Romeo BLE mini V2.0

DFR0306 Bluno Mega 1280

DFR0321 Wido-WIFI IoT Node

DFR0323 Bluno Mega 2560

DFR0329 Bluno M3

DFR0339 Bluno Beetle

DFR0343 UHex Low-power Controller

DFR0355 SIM808 with Leonardo mainboard

DFR0392 DFRduino M0 Mainboard Arduino Compatible

DFR0398 Romeo BLE Quad Robot Controller

DFR0416 Bluno M0 Mainboard

DFR0575 Beetle ESP32

DFR0133 X-Board

DFR0162 X-Board V2

DFR0428 3.5 inches TFT Touchscreen for Raspberry Pi

DFR0494 Raspberry Pi UPS HAT

DFR0514 DFR0603 IIC 16X2 RGB LCD KeyPad HAT V1.0

DFR0524 5.5 HDMI OLED-Display with Capacitive Touchscreen V2.0

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Features
Application
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Ethernet Usage Tutorial
Tutorial of using MicroSD card
FAQ
More Documents

SKU:DFR0850

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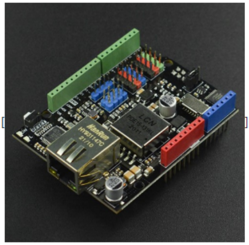

](Product Link)

Introduction

The W5500 Ethernet expansion board is a new member of the DFRobot Ethernet family. It integrates PoE power supply and W5500 Ethernet chip, which can meet the requirements of general IoT projects.

The W5500 chip is a Hardwired TCP/IP embedded Ethernet controller that provides easier Internet connection to embedded systems. It enables users to have the Internet connectivity in their applications just by using the single chip in which TCP/IP stack, 10/100 Ethernet MAC and PHY embedded. The Hardwired TCP/IP is the market-proven technology that supports TCP, UDP, IPv4, ICMP, ARP, IGMP, and PPPoE protocols. W5500 embeds the 32Kbyte internal memory buffer for the Ethernet packet processing. It's faster and easier way rather than using any other Embedded Ethernet solutions. Besides, the W5500's SPI supports 80MHz speed and new efficient SPI protocol for high-speed network communication. In order to reduce power consumption of the system, W5500 provides WOL (Wake on LAN) and power down mode.

With the same size as Arduino UNO, this W5500 Ethernet expansion board adopts IEEE 802.3at standard-compliant POE Class 0 power classification and offers MicroSD card socket and 2 standard Gravity-4Pin I2C ports, 1 UART, 4 Gravity-3Pin digital ports and 4 analog ports, etc.

⚠ NOTE

- This board has a POE power supply unit whose voltage can reach up to 50V. Although it is not harmful for humman beings, please do not touch the circuit borad with your hands or other conductors since there are some low-voltage circuits on the board that cannot bear such high voltage. Otherwise, product damage may occur.
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DFR0550 5'' TFT-Display with Touchscreen V1.0

DFR0591 raspberry pi e-ink display module V1.0

DFR0592 DC Motor Driver HAT

DFR0604 I O Expansion HAT for Pi zero V1.0

DFR0566 IO Expansion HAT for Raspberry Pi

DFR0528 UPS HAT for Raspberry Pi Zero

DFR0331 Romeo for Edison Controller

DFR0453 DFRobot CurieNano - A mini Genuino Arduino 101 Board

TEL0110 CurieCore intel® Curie Neuron Module

DFR0478 FireBeetle ESP32 IOT Microcontroller(V3.0) Supports Wi-Fi & Bluetooth

DFR0483 FireBeetle Covers-Gravity I O Expansion Shield

FireBeetle Covers-24×8 LED Matrix

TEL0121 FireBeetle Covers-LoRa Radio 433MHz

TEL0122 FireBeetle Covers-LoRa Radio 915MHz

TEL0125 FireBeetle Covers LoRa Radio 868MHz

DFR0489 FireBeetle ESP8266 IOT Microcontroller

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DFR0498 FireBeetle Covers-Camera&Audio Media Board

DFR0507 FireBeetle Covers-OLED12864 Display

DFR0508 FireBeetle Covers-DC Motor & Stepper Driver

DFR0511 FireBeetle Covers-ePaper Black&White Display Module

DFR0531 FireBeetle Covers-ePaper Black&White&Red Display Module

DFR0536 Micro bit Gamepad Expansion Board

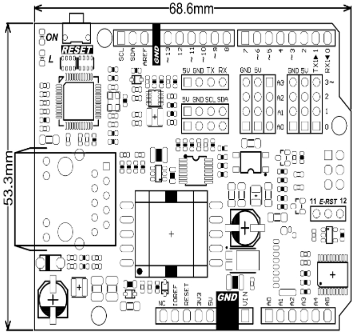
Features

- Support hardware TCP/IP protocol: TCP, UDP, ICMP, IPv4, ARP, IGMP, PPPoE
- Support 8-channel independent Sockets
- Support WOL Wake-on-LAN
- Internal 32KB transceiver buffer
- On-board level conversion circuit
- Gravity sensor extension interface

Application

- Home Network Equipment: set-top box, PVR, digital media center
- Serial Ethernet: access control system, LED display, wireless AP relay, etc.
- Parallel Ethernet: POS machine or handheld printer, duplicator
- USB Ethernet: storage devices, network printers
- Security System: network camera
- Monitoring equipment
- Embedded server

Specification



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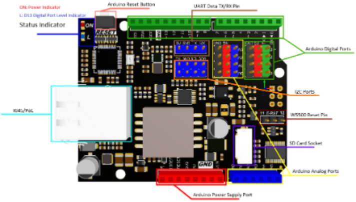
- PoE Power: up to 12W (the VIN port can output 12V/1A)
- SPI clock: 80MHz (Max)
- PHY: WIZnet W5500
- PCB Size: 68.6mmx53.3mm / 2.68 x 2.1 inch
- Overall Size: 72.5mmx53.3mm / 2.85 x 2.1 inch

Interface Function

The board has extra pin 11 and 12 for easy connection to the w5500 reset pin. The board comes with a jumper cap. If you do not use the w5500 reset function, please remove the jumper cap to avoid affecting the normal use of the pins.

- DFR0548 Micro bit Driver Expansion Board
- ROB0148 micro: Maqueen for micro:bit
- ROB0150 Micro bit Circular RGB LED Expansion Board
- MBT0005 micro IO-BOX
- SEN0159 CO2 Sensor
- DFR0049 DFRobot Gas Sensor
- TOY0058 Barometric Pressure Sensor
- SEN0220 Infrared CO2 Sensor 0-50000ppm
- SEN0219 Gravity Analog Infrared CO2 Sensor For Arduino
- SEN0226 Gravity I2C BMP280 Barometer Sensor
- SEN0231 Gravity HCHO Sensor
- SEN0251 Gravity BMP280 Barometric Pressure Sensors
- SEN0132 Carbon Monoxide Gas Sensor MQ7
- SEN0032 Triple Axis Accelerometer Breakout - ADXL345
- DFR0143 Triple Axis Accelerometer MMA7361
- Triple Axis Accelerometer FXLN83XX Series
- SEN0072 CMPS09 - Tilt Compensated Magnetic Compass
- SEN0073 9 Degrees of Freedom - Razor IMU
- DFR0188 Flymaple V1.1
- SEN0224 Gravity I2C Triple Axis Accelerometer - LIS2DH
- SEN0140 10 DOF Mems IMU Sensor V2.0
- SEN0250 Gravity BMI160 6-Axis Inertial Motion Sensor
- SEN0253 Gravity BNO055 + BMP280 intelligent 10DOF AHRS
- SEN0001 URM37 V5.0



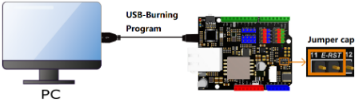
Ethernet Usage Tutorial

Requirements

- Hardware
    - POE Ethernet Expansion Board-W5500 (Arduino compatible) X1
    - Leonardo x1
    - Micro USB cable X1
    - Network cable X1
- Software
    - Arduino IDE

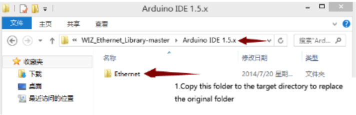
Connection

- First install the POE Ethernet expansion board on the Leonardo board, then connect the E-RST pin on the POE Ethernet expansion board to the D11 pin through the jumper cap, then connect your Leonardo to a computer with the micro USB cable.



Burning Program

- Download the official Arduino library of WIZnet, unzip the compressed package after downloading, according to the IDE version you are using, put the Ethernet folder in one of the two folders of Arduino IDE 1.0.x and Arduino IDE 1.5.x into the library file of the Arduino IED and overwrite it (overwrite the original Ethernet library), as shown below. Open the Arduino IDE compiler, find the WebServer sample in File -> Examples -> Ethernet and open it.



Ethernet 2014/7/20 星期... 文件夹

1.Copy this folder to the target directory to replace the original folder

Arduino IDE 1.0.x
文件
主页
共享
查看

Ultrasonic Sensor

SEN0002 URM04 V2.0

SEN0004 SRF01 Ultrasonic sensor

SEN0005 SRF02 Ultrasonic sensor

SEN0006 SRF05 Ultrasonic sensor

SEN0007 SRF08 Ultrasonic Sensor

SEN0008 SRF10 Ultrasonic sensor

SEN0149 URM06-RS485 Ultrasonic

SEN0150 URM06-UART Ultrasonic

SEN0151 URM06-PULSE Ultrasonic

SEN0152 URM06-ANALOG Ultrasonic

SEN0153 URM07-UART Ultrasonic Sensor

SEN0246 URM08-RS485 Waterproof Sonar Range Finder

SEN0304 URM09 Ultrasonic Sensor (Gravity-I2C) (V1.0)

SEN0304 URM09 Ultrasonic Sensor (Gravity-I2C) (V1.0)

SEN0300 Water-proof Ultrasonic Sensor ULS

SEN0301 Water-proof Ultrasonic Sensor ULA

SEN0307 URM09 Ultrasonic Sensor Gravity Analog

SEN0311 A02YYUW Waterproof Ultrasonic Sensor

SEN0312 ME007YS Waterproof Ultrasonic Sensor

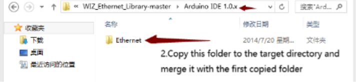
SEN0313 A01NYUB Waterproof Ultrasonic Sensor

DFR0066 SHT1x Humidity and Temperature Sensor

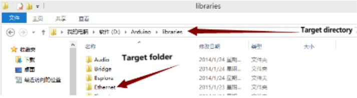
DFR0067 DHT11 Temperature and Humidity Sensor

SEN0137 DHT22 Temperature and humidity module

DFR0023 DFRobot LM35 Linear Temperature Sensor



2.Copy this folder to the target directory and merge it with the first copied folder



- Add the reset pin initialization code at the beginning of the WebServer sample code and burn it.

```
/*
  Web Server

 A simple web server that shows the value of the analog i
 using an Arduino Wiznet Ethernet shield.

 Circuit:
 * Ethernet shield attached to pins 10, 11, 12, 13
 * Analog inputs attached to pins A0 through A5 (optional

 created 18 Dec 2009
 by David A. Mellis
 modified 9 Apr 2012
 by Tom Igoe

 */

#include <SPI.h>
#include <Ethernet.h>

#define SS     10U    //W5500 CS
#define RST    11U    //W5500 RST

// Enter a MAC address and IP address for your controller
// The IP address will be dependent on your local network
byte mac[] = {
  0xDE, 0xAD, 0xBE, 0xEF, 0xFE, 0xED
};
IPAddress ip(192, 168, 1, 177);

// Initialize the Ethernet server library
// with the IP address and port you want to use
// (port 80 is default for HTTP):
EthernetServer server(80);

void setup() {

  pinMode(SS, OUTPUT);
  pinMode(RST, OUTPUT);

  digitalWrite(SS, LOW);

  digitalWrite(RST,HIGH);  //Reset this module
  delay(200);
    digitalWrite(RST,LOW);
  delay(200);
  digitalWrite(RST,HIGH);
 delay(200);
  // Open serial communications and wait for port to open
  Serial.begin(9600);
  //while (!Serial) {
  //  ; // wait for serial port to connect. Needed for Le
  //}


  // start the Ethernet connection and the server:
  Ethernet.begin(mac, ip);
  server.begin();
  Serial.print("server is at ");
```

DFR0024 Gravity DS18B20 Temperature Sensor Arduino Compatible V2

DFR0024 Gravity DS18B20 Temperature Sensor Arduino Compatible V2

SEN0114 Moisture Sensor

TOY0045 TMP100 Temperature Sensor

TOY0054 SI7021 Temperature and humidity sensor

SEN0206 IR Thermometer Sensor MLX90614

SEN0227 SHT20 I2C Temperature & Humidity Sensor Waterproof Probe

SEN0236 Gravity I2C BME280 Environmental Sensor Temperature, Humidity, Barometer

SEN0248 Gravity I2C BME680 Environmental Sensor VOC, Temperature, Humidity, Barometer

DFR0558 Gravity Digital High Temperature Sensor K-type

SEN0308 Waterproof Capacitive Soil Moisture Sensor

SEN0019 Adjustable Infrared Sensor Switch

SEN0042 DFRobot Infrared sensor breakout

SEN0143 SHARP GP2Y0A41SK0F IR ranger sensor 4-30cm

SEN0013 Sharp GP2Y0A02YK IR ranger sensor 150cm

SEN0014 Sharp GP2Y0A21 Distance Sensor 10-80cm

SEN0085 Sharp GP2Y0A710K Distance Sensor 100-550cm

DFR0094 Digital IR Receiver Module

DFR0095 DIGITAL IR Transmitter Module

SEN0018 Digital Infrared motion sensor

DFR0107 IR Kit

SEN0264 TS01 IR Thermal Sensor (4-20mA)

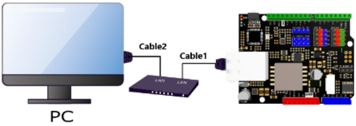
SEN0169 Analog pH Meter Pro

```
  Serial.println(Ethernet.localIP());
}


void loop() {
  // listen for incoming clients
  EthernetClient client = server.available();
  if (client) {
    //Serial.println("new client");
    // an http request ends with a blank line
    boolean currentLineIsBlank = true;
    while (client.connected()) {
      if (client.available()) {
        char c = client.read();
        Serial.write(c);
        // if you've gotten to the end of the line (recei
        // character) and the line is blank, the http req
        // so you can send a reply
        if (c == '\n' && currentLineIsBlank) {
          // send a standard http response header
          client.println("HTTP/1.1 200 OK");
          client.println("Content-Type: text/html");
          client.println("Connection: close");// the conn
          client.println("Refresh: 5");  // refresh the p
          client.println();
          client.println("<!DOCTYPE HTML>");
          client.println("<html>");
          // output the value of each analog input pin
          for (int analogChannel = 0; analogChannel < 6;
            int sensorReading = analogRead(analogChannel)
            client.print("analog input ");
            client.print(analogChannel);
            client.print(" is ");
            client.print(sensorReading);
            client.println("<br />");
          }
          client.println("</html>");
          break;
        }
        if (c == '\n') {
          // you're starting a new line
          currentLineIsBlank = true;
        }
        else if (c != '\r') {
          // you've gotten a character on the current lin
          currentLineIsBlank = false;
        }
      }
    }
    // give the web browser time to receive the data
    delay(1);
    // close the connection:
    client.stop();
    Serial.println("client disconnected");
  }
}
```

POE Function Wiring Diagram

- Plug the POE Ethernet expansion board and the computer cable into any LAN port of the POE switch (common switches and routing equipment can also be used. When using common switches and routing equipment, the module needs to be powered).



DFR0300-H Gravity: Analog Electrical Conductivity Sensor(K=10)

DFR0300 Gravity Analog Electrical Conductivity Sensor Meter V2 K=1

SEN0165 Analog ORP Meter

SEN0161-V2 Gravity Analog pH Sensor Meter Kit V2

SEN0161 PH meter

SEN0237 Gravity Analog Dissolved Oxygen Sensor

SEN0204 Non-contact Liquid Level Sensor XKC-Y25-T12V

SEN0205 Liquid Level Sensor-FS-IR02

SEN0244 Gravity Analog TDS Sensor Meter For Arduino

SEN0249 Gravity Analog Spear Tip pH Sensor Meter Kit For Soil And Food Applications

SEN0121 Steam Sensor

SEN0097 Light Sensor

DFR0026 DFRobot Ambient Light Sensor

TOY0044 UV Sensor

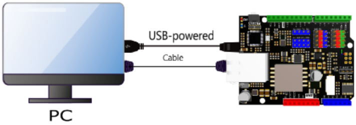
SEN0172 LX1972 ambient light sensor

SEN0043 TEMT6000 ambient light sensor

SEN0175 UV Sensor v1.0-ML8511

Non-POE Function Wiring Diagram

- Connect the POE Ethernet expansion board to the computer through a network cable (when directly connected to the PC network port, the module needs to be powered).



Result

Open the browser -> enter the IP address -> press Enter to open the web page and you can see that the input values of the 6 analog ports of the board are automatically refreshed and displayed on the web page at a frequency of 5S/time, which means that a small Web Server we created has been working normally.

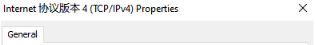
Solutions to Abnormal Situations

For those who have the problem of "Webpage cannot be loaded" in the computer browser, don't worry, please follow the steps below to configure your network adapter:

`1. Open the Control Panel-->Network and Internet-->Network and Sharing Center-->Change adapter settings`

`2. Find the network you connect to the module-->right-click-->Properties-->Find "Internet Protocol Version 4 (TCP/IPv4)" in the network tab and double-click to enter the property settings`

`3. Enter the parameters shown in the figure below and click OK. After this, open the browser and enter the IP address, then press Enter to open the webpage.`


Internet 协议版本 4 (TCP/IPv4) Properties

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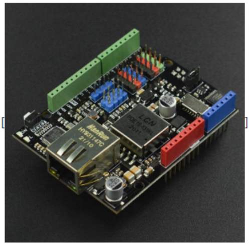
[](Product Link)

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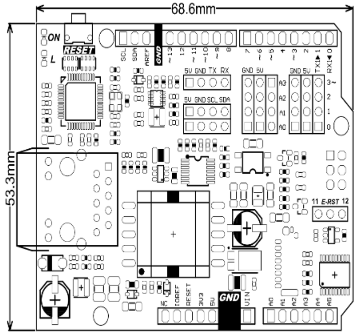

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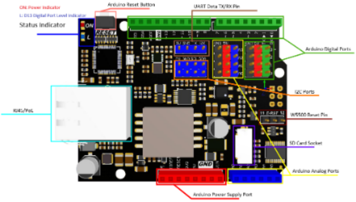

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SEN0224 Gravity I2C Triple Axis Accelerometer - LIS2DH

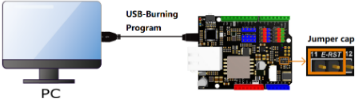
SEN0140 10 DOF Mems IMU Sensor V2.0

SEN0250 Gravity BMI160 6-Axis

  - Network cable X1
- Software
  - Arduino IDE

Connection

- First install the POE Ethernet expansion board on the Leonardo board, then connect the E-RST pin on the POE Ethernet expansion board to the D11 pin through the jumper cap, then connect your Leonardo to a computer with the micro USB cable.



Burning Program

- Download the official Arduino library of WIZnet, unzip the compressed package after downloading, according to the IDE version you are using, put the Ethernet folder in one of the two folders of Arduino IDE 1.0.x and Arduino IDE 1.5.x into the library file of the Arduino IED and overwrite it (overwrite the original Ethernet library), as shown below. Open the Arduino IDE compiler, find the WebServer sample in File -> Examples -> Ethernet and open it.

Arduino IDE 1.5.x
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