DFRduino Ethernet Shield V3.0 - W5100S (Support Mega and Micro SD)

SKU: DFR0125

INTRODUCTION

Use this DFRduino Ethernet W5100S Shield to connect your Arduino to the Internet with a RJ45 cable. Plug the shield onto the board, burn the Ethernet sample codes into the controller, then an easy IoT project with stable communication is done. Based on WizNet WS5100S Ethernet chip, this board integrates full hardwired TCP/IP protocol stacks and has 4 independent hardware SOCKETs. Your Arduino board can communicate with WS5100S and SD card through the SPI interface(use ICSP pin). The DFRduino Ethernet W5100S expansion board supports both Arduino UNO and Mega series.

Current hardware version V3.0: the chip has been upgraded from W5100 to W5100S, which comes with lower power consumption, lower heat and higher performance.

FEATURES

- Full hardwired TCP/IP protocol stacks
- Support 4 independent hardware SOCKETs simultaneously
- Internal 16K bytes memory TX/ RX Buffers for TCP/IP packet processing
- Support auto-negotiation

APPLICATIONS

- IoT project

SPECIFICATION

- Operating Voltage: 5V
- 16KB TX/RX Buffers
- 4 Independent hardware sockets
- Full-hardware TCP/IP protocol stacks + MAC +PHY
- Operating Temperature: -40℃ ~ 85℃
- Dimension: 70x55x30mm (2. 76x2. 15x1. 18")