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INDUSTRIAL PRODUCT DATASHEET

# W5500 Ethernet Shield

The W5500 Ethernet Shield delivers embedded Ethernet connectivity with hardwired TCP/IP support, 8 sockets, and onboard microSD and Grove interfaces.

SKU

103030021

UPDATED

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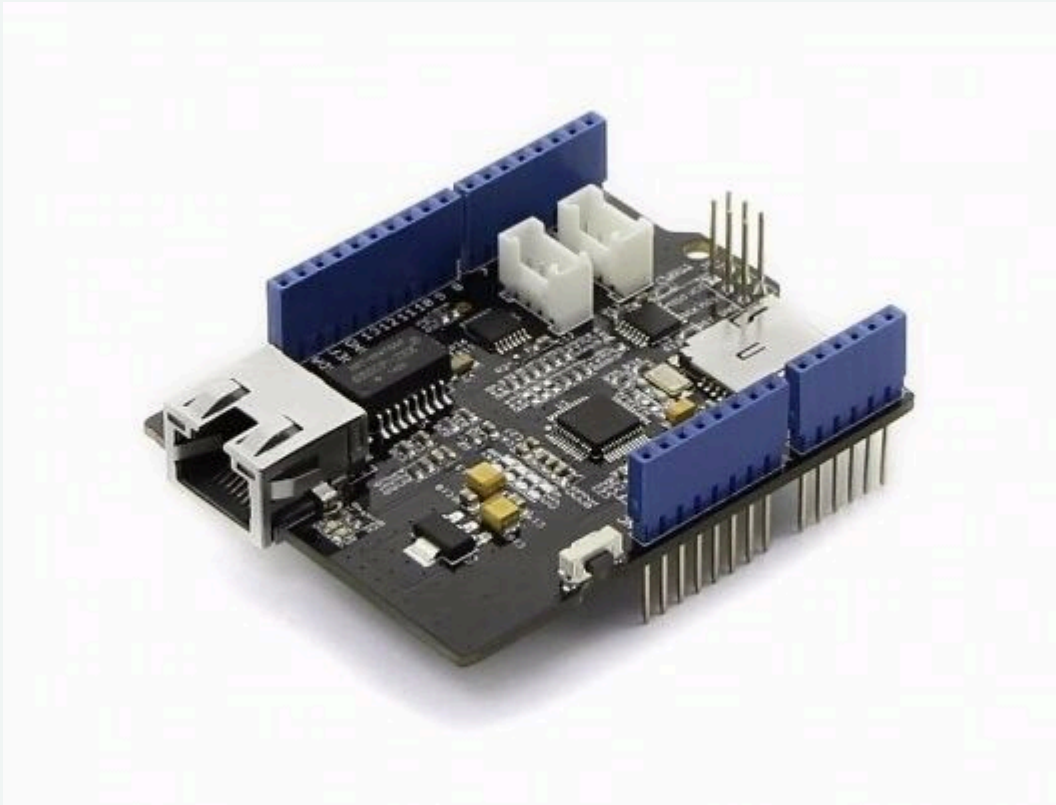
PRICE

\$31.90(Excl. VAT)



# Overview

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The W5500 Ethernet Shield v1.0 provides internet connectivity using a single W5500 chip with embedded TCP/IP stack, 10/100 Ethernet MAC, and PHY. It includes a microSD card socket, two Grove connectors (I2C and UART), and supports hardwired TCP/IP protocols, 8 independent sockets, and 32KB internal buffer memory.

# Key Features

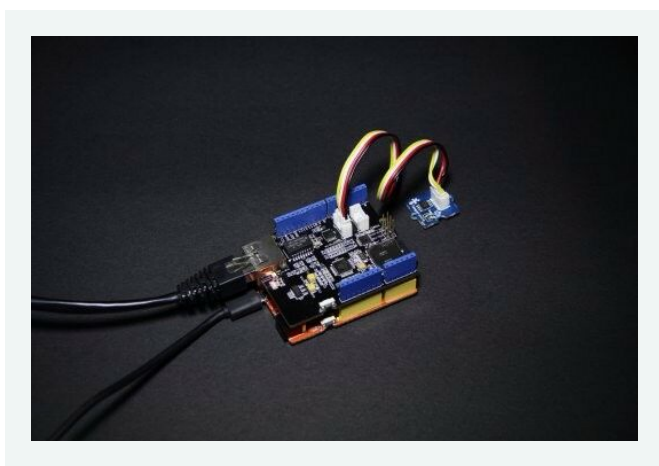
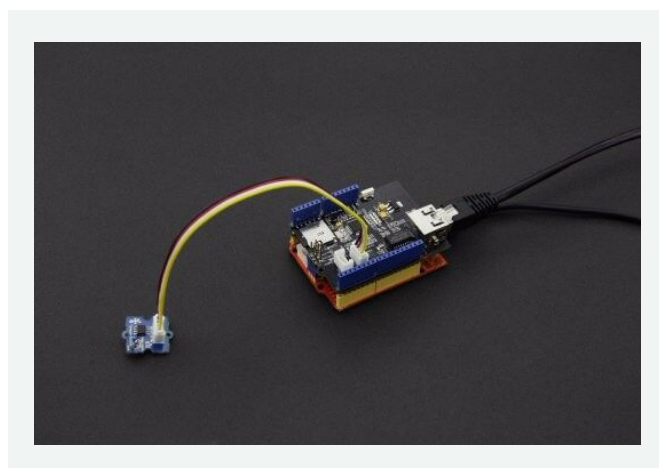
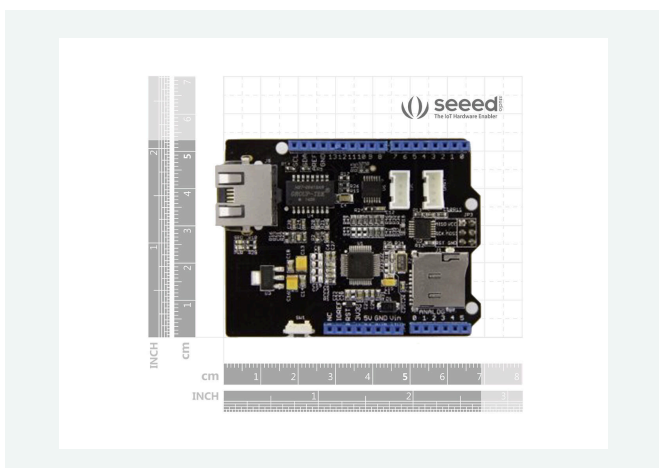
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The W5500 Ethernet Shield v1.0 can be used to provide your projects with internet connectivity. W5500 enables users to have the Internet connectivity in their applications just by using the single chip in which TCP/IP stack, 10/100 Ethernet MAC and PHY embedded. The shield also have two Grove connectors and a microSD card socket to support projects which require storing large amounts of data from Grove sensor. The RJ45 port (Where the Ethernet cable is connected to) is low enough to allow you to stack more shields on top of this one if needed.

## Features

- Supports Hardwired TCP/IP Protocols : TCP, UDP, ICMP, IPv4, ARP, IGMP, PPPoE
- Supports 8 independent sockets simultaneously
- Supports Power down mode
- Supports Wake on LAN over UDP
- Supports High Speed Serial Peripheral Interface(SPI MODE 0, 3)
- Internal 32Kbytes Memory for TX/RX Buffers
- 10BaseT/100BaseTX Ethernet PHY embedded
- Supports Auto Negotiation (Full and half duplex, 10 and 100\* based )
- Not supports IP Fragmentation
- 3.3V operation with 5V I/O signal tolerance
- LED outputs (Full/Half duplex, Link, Speed, Active)
- Micro-SD card socket
- Grove connector for I2C and UART

# Product Gallery



## Part List

|                       |   |
|-----------------------|---|
| W5500 Ethernet Shield | 1 |
|-----------------------|---|

## Compliance & Logistics



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|----------|--------------|
| HSCODE   | 8517629990   |
| USHSCODE | 8517620010   |
| UPC      | 841454100522 |
| EUHSCODE | 8517180000   |
| COO      | CHINA        |

## Resource Links

- <https://www.seeedstudio.com/W5500-Ethernet-Shield.html>
- [W5500 Ethernet Shield in Eagle format](#)
- [W5500 Ethernet Shield Schematic in PDF format](#)
- [W5500 Ethernet Shield PCB in PDF format](#)
- [W5500 Ethernet Shield Library](#)
- [W5500 Ethernet Shield Datasheet.pdf](#)

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