

INDUSTRIAL PRODUCT DATASHEET

XIAO W5500 Ethernet Adapter V1.2 (ESPHome Ready-Made Project)

The XIAO W5500 Ethernet Adapter V1.2 (ESPHome Ready-Made Project) offers zero-code setup, integrated PoE with isolation, reliable W5500 Ethernet connectivity, and dual-sided I/O in a compact design for industrial automation,...

SKU

113100042

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PRICE

\$21.90(Excl. VAT)



Overview



The XIAO W5500 Ethernet Adapter V1.2 (ESPHome Ready-Made Project) is built on the XIAO ESP32S3 Plus platform for robust processing power and efficient wireless connectivity, with zero-code setup via web browser and integrated PoE with isolation and power conversion from a 12V Ethernet input to a stable 5V rail. It provides reliable Ethernet connectivity via an onboard W5500 chip and standard RJ45 jack, dual-sided I/O outputs, and a compact ready-to-deploy design for industrial automation, network control, smart home & building automation, remote monitoring, and surveillance.

Key Features

ESPHome Ready-Made Project: Zero-Code Setup!

Seeed Studio is proud to have joined the ESPHome Ready-Made Project. No YAML or coding required—flash your firmware directly via web browser for instant integration.

Featured Devices:

- [XIAO Smart IR Mate](#): Your ultimate Home Assistant infrared hub.
- **XIAO W5500 Ethernet Adapter V1.2**: Reliable PoE Bluetooth Proxy for Seamless Connectivity.

Experience seamless setup now at the [ESPHome Ready-Made Projects website](#)!

[Explore landing page](#) to discover more plug-and-play, Home Assistant-compatible devices designed for faster deployment and simplified integration.

- **High-Performance Microcontroller**: Built on the XIAO ESP32S3 Plus platform, our board delivers robust processing power and efficient wireless connectivity, making it ideal for complex IoT and embedded applications.
- **Integrated PoE with Isolation & Power Conversion**: Featuring a robust PoE module with built-in isolation, the board safely accepts a 12V Ethernet power input. A high-efficiency TPS563201 buck converter then steps the 12V down to a stable 5V rail, providing optimal power to the XIAO ESP32S3 Plus.
- **Reliable Ethernet Connectivity**: Equipped with an onboard W5500 Ethernet chip and a standard RJ45 jack, the board ensures stable wired network access for seamless data transmission and remote management.
- **Versatile I/O Options**: With dual-sided I/O outputs, you can easily expand functionality and interface with a range of sensors and peripherals to customize your application to exact specifications.
- **Compact & Ready-to-Deploy Design**: Combining integrated PoE, isolation circuitry, and Ethernet connectivity in a small form factor, this board simplifies prototyping and enables efficient deployment in smart home, industrial automation, or network appliance projects.

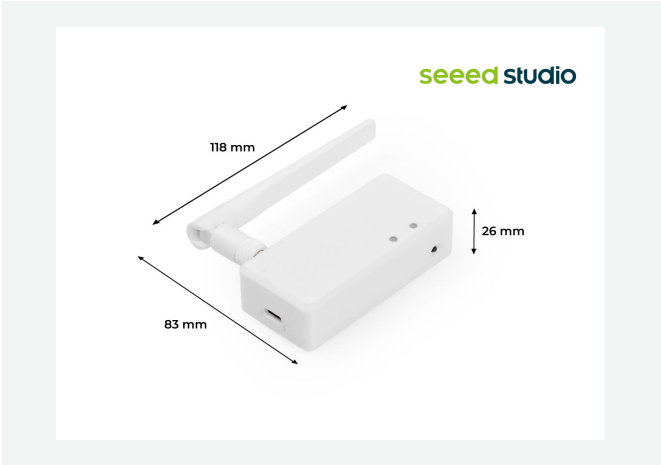
Note:

Early Build provides beta products (featuring 3D-printed cases) and evolving software before final release. We welcome your feedback and suggestions to shape the product's evolution. Enjoy exploring!

This V1.2 features an INT pin wiring fix (D16 → W5500 INTn), enabling active Bluetooth proxy functionality in ESPHome.

Product Gallery

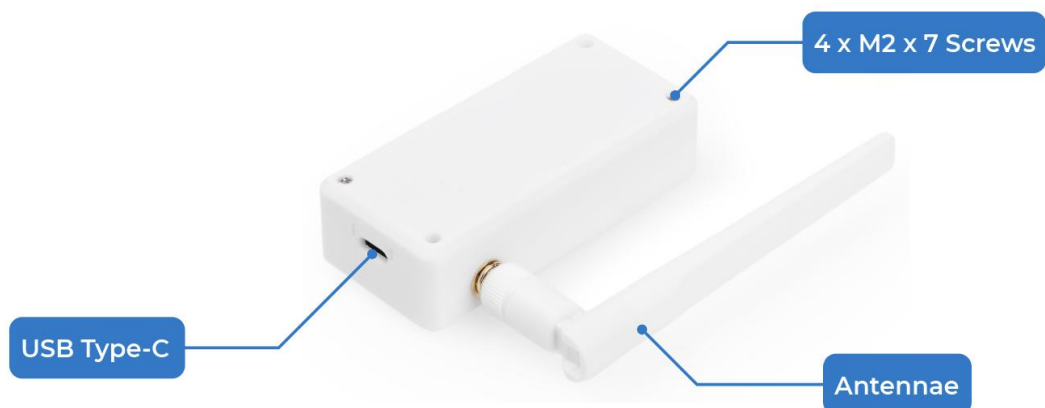
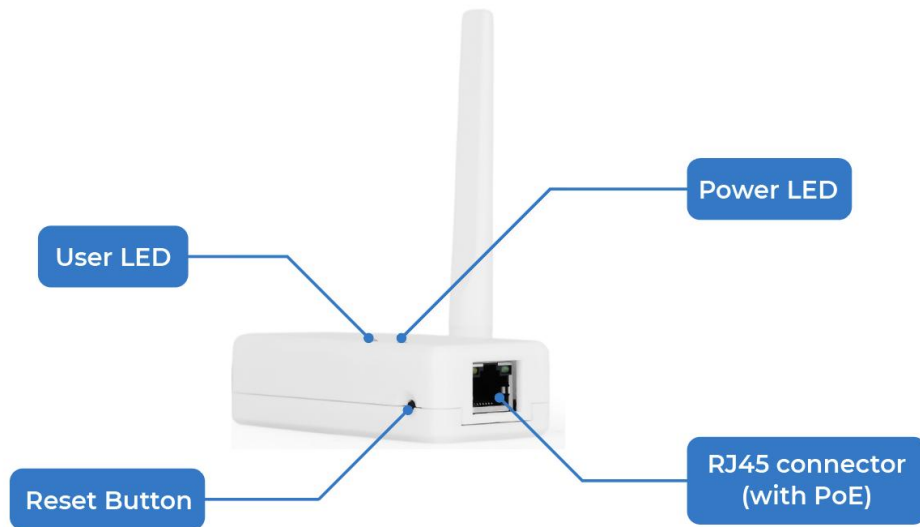




Specification

Parameter	Description
MCU	XIAO ESP32-S3 Plus
Antenna	2.4GHz Rod Antenna (2.81dBi)
USB Type-C	Input voltage (Type-C): 5V
PoE Chip	MQ7813T120
PoE Power Supply	PoE IEEE802.3af Output Current: 12V/1.1A High Efficiency 86% (Input 48V, Load 12V@1.1A)
Ethernet Chip	WIZnet W5500
Ethernet Interface	RJ45 10/100Mbps Ethernet
TCP/IP Protocols	TCP, UDP, ICMP, IPv4, ARP, IGMP, PPPoE
LED Indicator	Power x 1 User x 1
Button	Reset
I/O Interface	XIAO ESP32-S3 Plus: D0/D2/D3/D4/D5/D6/D7/D11/D12/D13/D14/D15/D17/D18/D19
W5500 INTn Pin	D16
Product Size	83 x 118 x 26 mm
Product Weight	75g
Enclosure	3D-Printed in White

Hardware Overview



Applications

- Industrial Automation
- Network Control
- Smart Home & Building Automation
- Remote Monitoring
- Surveillance

Part List

XIAO W5500 Ethernet Adapter	x1
2.4GHz Rod Antenna (2.81dBi) for Seeed Studio XIAO	x 1

Compliance & Logistics

HSCODE	8517629990
USHSCODE	8517620010
UPC	
EUHSCODE	8517180000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/XIAO-W5500-Ethernet-Adapter-p-6472.html>
- [Printables](#)
- [Thingiverse](#)

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