

# WIFI-001

Wireless Ethernet device

User Manual

## INTRODUCTION

The **WIFI-001** is a specialized bridge that converts high-speed wireless signals into a stable wired output for professional hardware. It integrates **Dual-band Wi-Fi 6 (802.11ax)** and **Bluetooth 5.3 (LE)** to ensure efficient communication across 2.4 GHz and 5 GHz bands. By utilizing an onboard **RMII/PHY circuit**, the device bridges these wireless standards to a **100 Mbit Ethernet** interface, providing a reliable RJ45 link for legacy equipment. Featuring a **dual-purpose USB interface** for power and configuration, the WIFI-001 serves as a compact solution for retrofitting wired devices with modern Wi-Fi 6 and Bluetooth connectivity.

## FEATURES

- IRIS-W101 module
- USB interface
- RMII/Ethernet interface (via 100 Mbit PHY circuit)
- Wi-Fi 6 IEEE 802.11a/b/g/n/ac/ax, Dual band WiFi 2.4/5 GHz
- Bluetooth LE subsystem supporting Bluetooth 5.3 in 2.4 GHz band