



OW900

AX900 Wi-Fi 6 USB 2.0 Adapter

Wi-Fi 6 (802.11ax), 2.4/5 GHz, USB 2.0



The ORIGO OW900 is an AX900 Wi-Fi 6 Dual Band USB 2.0 adapter which complies with the wireless standard 802.11ax.

The ORIGO OW900 Wi-Fi adapter is based on the AIC8800M80 controller and is a simple and affordable solution for connecting a PC or a laptop to the Wi-Fi 6 network.

The AX900 Wi-Fi speeds of up to 600 Mbps in the 5GHz band and up to 286 Mbps in 2.4GHz band are perfect for online gaming and streaming.

The MU-MIMO technology support ensures high data transfer rates and minimal delays in networks with multiple simultaneous connected devices. TX Beamforming function support significantly improves the quality of the Wi-Fi connection.

The OW900 adapter is compatible with Windows 10/11 and Linux operating systems.

Key Features

- 1xUSB 2.0 port
- The AIC8800M80 controller
- AX900 speeds up to 600 Mbps (5GHz) and 286 Mbps (2.4GHz)
- MU-MIMO and TX Beamforming functions support
- Compatible with all existing network infrastructures
- Windows 10/11 and Linux OS support



Specifications

Hardware

Chipset	• AIC8800M80
Interfaces	• USB 2.0 Type-A
Antenna	• 2 dBi internal antenna

Wi-Fi Parameters

Standards	<ul style="list-style-type: none">• IEEE 802.11ax• IEEE 802.11ac• IEEE 802.11n• IEEE 802.11g• IEEE 802.11b
Frequency Range	<ul style="list-style-type: none">• 2.4GHz – 2.4835GHz• 5.15GHz – 5.35GHz• 5.725GHz – 5.825GHz
Data Rate	<ul style="list-style-type: none">• 2.4GHz<ul style="list-style-type: none">- 11ax: up to 286 Mbps- 11n: up to 150 Mbps- 11g: up to 54 Mbps- 11b: up to 11 Mbps• 5GHz<ul style="list-style-type: none">- 11ax: up to 600 Mbps- 11ac: up to 433 Mbps
Wireless Security	<ul style="list-style-type: none">• WEP• WPA/WPA2• WPA3¹
Transmitter Output Power	• Not more than 20 dBm (100 mW)
Receiver Sensitivity	<ul style="list-style-type: none">• 2.4GHz<ul style="list-style-type: none">- 11b (11 Mbps): -85 dBm- 11g (54 Mbps): -72 dBm- 11n (150 Mbps): -72 dBm- 11ax (286 Mbps): -68 dBm

¹ WPA3 support for Windows OS will be available in the following driver versions.



- 5GHz
 - 11ac (433 Mbps): -68 dBm
 - 11ac (600 Mbps): -68 dBm

System Requirements

System Requirements	<ul style="list-style-type: none">• Windows 10/11, Linux• USB 2.0 Type-A port
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Physical Parameters

Dimensions (L x W x H)	<ul style="list-style-type: none">• 37.7 x 17.7 x 7.8 mm
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Operating Conditions

Power	<ul style="list-style-type: none">• PC (USB), 5 V
Temperature	<ul style="list-style-type: none">• Operating: 0 to 40 °C• Storage: -20 to 60 °C
Humidity	<ul style="list-style-type: none">• Operating: 10% to 90% (non-condensing)• Storage: 5 to 95% (non-condensing)

Package Contents

Package Contents	<ul style="list-style-type: none">• OW900 Wi-Fi 6 USB Adapter• Quick Installation Guide
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Order Info

OW900	AX900 Wi-Fi 6 USB 2.0 Adapter, 2.4/5GHz
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