



AX1800 Wi-Fi 6 Dual-Band USB 3.0 Adapter

EW-7822UMX

FEATURES

- **AX1800 Wi-Fi 6 Blazing Speed:** Max. data transfer rate up to 1201Mbps (5GHz) and 573Mbps (2.4GHz)
- **High Performance 802.11ax Technology:** Supports OFDMA and MU-MIMO allowing greater Wi-Fi efficiency
- **Secure Wi-Fi:** High level Wi-Fi security supported with WPA3-SAE (Personal), WPA2, WPA, WEP and 802.1x
- **Easy Installation:** Simple and quick 3-step installation via a USB 3.2 Gen 1* port
- **Instant Upgrade to Wi-Fi 6:** Simply and quickly adds Wi-Fi 6 to your PC and laptop via USB port
- **Wide Compatibility:** Works with any Wi-Fi router/AP/extender and backward compliant with 802.11a/b/g/n/ac standards
- **Supported OS:** Windows and Linux
- **Application:** Online gaming, 4K/live streaming, conference meeting, voice and large file transfers

OVERVIEW

The EW-7822UMX is a dual-band 802.11ax USB adapter with the USB 3.2 Gen 1* connectivity that supports MU-MIMO and OFDMA allowing greater Wi-Fi efficiency. It lets you enjoy 4K/live streaming, online gaming, and surfing simultaneously without lag. It is excellent for large file transfers and video conferences while working from home.

No worries about the compatibility. The 7822UMX is designed with quality and a style in gaming. The EW-7822UMX AX1800 USB adapter works with any existing Wi-Fi router, access point and range extender, you can improve an older Wi-Fi 4 and Wi-Fi 5 connection to the utmost 11AX Wi-Fi 6 blazing speed standard by plugging this USB adapter into your computer.

The EW-7822UMX is certainly a powerful and easy-to-use gadget for instant upgrade of your existing computer's wireless network to the next 802.11ax level.

AX1800 Wi-Fi 6 Blazing Speed with USB 3.2 Gen 1* Port

Ideal for wireless gaming, the EW-7822UMX USB Adapter improves your experience for smooth internet surfing. AX1800 Wi-Fi 6 maximum data transfer rate up to 1201Mbps (2T2R in 5GHz) and 573Mbps (2T2R in 2.4GHz), the USB adapter provides more efficiency and less latency with up to 1.5X faster speed than Wi-Fi 5 AC1200. The USB 3.2 Gen 1* is up to 10 times faster than USB 2.0 with data transfer rates up to 5Gbps which enables the device to achieve superfast speeds that 802.11ax can provide – for gaming, video streaming, large file transfers of photos, music, videos, and data. (*Previous USB 3.0/USB 3.1 Gen 1 is rebranded as USB 3.2 Gen 1 by USB-IF.)

Greater Wi-Fi Efficiency with OFDMA & MU-MIMO

With OFDMA, EW-7822UMX allows many low-bandwidth streams to transmit in parallel, reducing latency and increased efficiency. Reduced latency is an important requirement for IoT and video that 802.11ax can now address. Supporting MU-MIMO, EW-7822UMX increases capacity, facilitates higher speeds, and is ideal for applications that require high bandwidth. Users can enjoy improved Wi-Fi performance when connected to a Wi-Fi 6 OFDMA and MU-MIMO enabled network.

Instant Upgrade and Works with Any Wi-Fi

With quick and simple installation, the EW-7822UMX USB adapter is the best choice for your laptop or PC, gaining an instant upgrade to Wi-Fi 6. It's stylish, slick, portable in design, so you can take it with you anywhere for Wi-Fi connectivity. Wide compatibility and backward compliant with 802.11a/b/g/n/ac standards, the EW-7822UMX supports all existing Wi-Fi routers, access points and range extenders.

SPECIFICATIONS

HARDWARE	
Interface	1 x USB 3.2 Gen 1* Type A (*Previous USB 3.0/USB 3.1 Gen 1 is rebranded as USB 3.2 Gen 1 by USB-IF.) (To use with USB 3.2 Gen 1 port is recommended for best 5GHz performance.)
LED Indicator	1 x Link/Activity LED
Antenna	2 x Internal PIFA Antenna (2T2R)
Dimensions	103.6(L) x 30.1(W) x 15(H) mm (4.08(L) x 1.19(W) x 0.59(H) inches)
Weight	25g (0.88 ounces)

Wireless					
Standard	<ul style="list-style-type: none"> • 2.4GHz: IEEE 802.11b/g/n/ax • 5GHz: IEEE 802.11a/n/ac/ax 				
Frequency Band	<ul style="list-style-type: none"> • 2.4GHz: 2.4000~2.4835GHz • 5GHz: 5.150~5.825GHz *Subject to local regulations.				
Max. Data Rate/Speed	<ul style="list-style-type: none"> • 11a: Up to 54Mbps • 11b: Up to 11Mbps • 11g: Up to 54Mbps • 11n: Up to 400Mbps • 11ac: Up to 867Mbps • 11ax (2.4GHz): Up to 573Mbps • 11ax (5GHz): Up to 1201Mbps 				
Transmit Power	<table border="0"> <tr> <td>2.4GHz:</td> <td>5GHz:</td> </tr> <tr> <td> <ul style="list-style-type: none"> • 11b(11M): 18±1.5dBm • 11g(54M): 16±1.5dBm • 11n(40MHz, MCS7): 16±1.5dBm • 11ax(40MHz, MCS11): 14±1.5dBm </td> <td> <ul style="list-style-type: none"> • 11a(54M): 16±1.5 dBm • 11n(40MHz, MCS7): 16±1.5dBm • 11ac(80MHz, MCS9): 15±1.5dBm • 11ax(80MHz, MCS11): 14±1.5dBm </td> </tr> </table>	2.4GHz:	5GHz:	<ul style="list-style-type: none"> • 11b(11M): 18±1.5dBm • 11g(54M): 16±1.5dBm • 11n(40MHz, MCS7): 16±1.5dBm • 11ax(40MHz, MCS11): 14±1.5dBm 	<ul style="list-style-type: none"> • 11a(54M): 16±1.5 dBm • 11n(40MHz, MCS7): 16±1.5dBm • 11ac(80MHz, MCS9): 15±1.5dBm • 11ax(80MHz, MCS11): 14±1.5dBm
2.4GHz:	5GHz:				
<ul style="list-style-type: none"> • 11b(11M): 18±1.5dBm • 11g(54M): 16±1.5dBm • 11n(40MHz, MCS7): 16±1.5dBm • 11ax(40MHz, MCS11): 14±1.5dBm 	<ul style="list-style-type: none"> • 11a(54M): 16±1.5 dBm • 11n(40MHz, MCS7): 16±1.5dBm • 11ac(80MHz, MCS9): 15±1.5dBm • 11ax(80MHz, MCS11): 14±1.5dBm 				
Receive Sensitivity	<table border="0"> <tr> <td>2.4GHz:</td> <td>5GHz:</td> </tr> <tr> <td> <ul style="list-style-type: none"> • 11b(11M): -85±2dBm • 11g(54M): -73±2dBm • 11n(40MHz, MCS7): -68±2dBm • 11ax(40MHz, MCS11): -57±2dBm </td> <td> <ul style="list-style-type: none"> • 11a(54M): -71±2dBm • 11n(40MHz, MCS7): -67±2dBm • 11ac(80MHz, MCS9): -57±2dBm • 11ax(80MHz, MCS11): -55±2dBm </td> </tr> </table>	2.4GHz:	5GHz:	<ul style="list-style-type: none"> • 11b(11M): -85±2dBm • 11g(54M): -73±2dBm • 11n(40MHz, MCS7): -68±2dBm • 11ax(40MHz, MCS11): -57±2dBm 	<ul style="list-style-type: none"> • 11a(54M): -71±2dBm • 11n(40MHz, MCS7): -67±2dBm • 11ac(80MHz, MCS9): -57±2dBm • 11ax(80MHz, MCS11): -55±2dBm
2.4GHz:	5GHz:				
<ul style="list-style-type: none"> • 11b(11M): -85±2dBm • 11g(54M): -73±2dBm • 11n(40MHz, MCS7): -68±2dBm • 11ax(40MHz, MCS11): -57±2dBm 	<ul style="list-style-type: none"> • 11a(54M): -71±2dBm • 11n(40MHz, MCS7): -67±2dBm • 11ac(80MHz, MCS9): -57±2dBm • 11ax(80MHz, MCS11): -55±2dBm 				
Security	<ul style="list-style-type: none"> • WPA3-SAE (Personal), WPA2, WPA, WEP and 802.1x • Software WPS (Wi-Fi Protected Setup. Driver installation and WPS supported Wi-Fi device are required.) 				

OTHERS					
Supported Operating System	<ul style="list-style-type: none"> • Windows 10/11 • Linux: Kernel 3.13 - 5.11 (support Fedora & Ubuntu only) *Additional version information may be announced on the EDIMAX website.				
Environmental Condition	<table border="0"> <tr> <td>Temperature:</td> <td>Humidity:</td> </tr> <tr> <td> <ul style="list-style-type: none"> • Operating: 0~40°C (32~104°F) • Storage: -20~65°C (-4~149°F) </td> <td> <ul style="list-style-type: none"> • Operating: 10~90% (Non-condensing) • Storage: 10~90% (Non-condensing) </td> </tr> </table>	Temperature:	Humidity:	<ul style="list-style-type: none"> • Operating: 0~40°C (32~104°F) • Storage: -20~65°C (-4~149°F) 	<ul style="list-style-type: none"> • Operating: 10~90% (Non-condensing) • Storage: 10~90% (Non-condensing)
Temperature:	Humidity:				
<ul style="list-style-type: none"> • Operating: 0~40°C (32~104°F) • Storage: -20~65°C (-4~149°F) 	<ul style="list-style-type: none"> • Operating: 10~90% (Non-condensing) • Storage: 10~90% (Non-condensing) 				
Certification	CE (European Union), FCC (US), IC (Canada), BSMI (Taiwan), NCC (Taiwan)				

Maximum performance, actual data rates, and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice.
 Copyright © 2022 Edimax Technology Co. Ltd. All rights reserved. www.edimax.com 2