EDIMAX
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Tiny 7 Dongle

Upgrade to WI-FI 7

Wi-Fi 7 Tri-Band Tiny USB Adapter

EW-7822UN7

FEATURES

- **Tri-Band BE6500:** Maximize 6GHz, 5GHz, and 2.4GHz connectivity to deliver high speeds with low latency
- **Powerful 6GHz band:** Less congestion and interference for Wi-Fi connections
- **WPA3 Encryption**: High level Wi-Fi security supported with WPA3-enterprise ,WPA3-SAE (Personal), 802.1x, WPA and WPA2
- **Built-in Driver**: No need to download the driver before using
- **MLO eMLSR Mode:** Dynamically switch between the 2.4 GHz, 5 GHz, and 6 GHz bands to avoid network traffic and keep you connected
- **4K-QAM:** 4K-QAM technology, boosting data efficiency by 20% compared to Wi-Fi 6 1024-QAM.
- **Wide Compatibility**: Works with any Wi-Fi router/AP/extender and backward compliant with 802.11a/b/g/n/ac/ax standards

OVERVIEW

The EW-7822UN7 is a Tri-band 802.11BE USB adapter that supports 4K-QAM, MLO eMLSR(enhanced Multi-Link-Single-Radio), Multi-RU, MU-MIMO and OFDMA allowing greater Wi-Fi efficiency and low latency. Upgrade your Wi-Fi to the Latest Standard to transform your PC to the cutting-edge 802.11be standard with a simple USB connection.

No worries about the compatibility, the EW-7822UN7 works with any existing Wi-Fi router, access point and range extender, you can improve an older Wi-Fi 4 /5/6/6E connection to the utmost 11BE Wi-Fi 7 up-to - date speed standard and low latency by plugging this USB adapter into your laptop or PC.

The EW-7822UN7 is certainly a powerful and easy-to-use gadget for instant upgrade of your existing computer's wireless network to the next 802.11BE level.

Multi-RU & Preamble Puncturing
The EW-7822UN7 supports Multi-RU(Multiple Resource Unit) technology that allows devices to utilize multiple RUs simultaneously by leveraging "Preamble Puncturing "technology. This intelligent resource allocation technology allows access points to 'carve out' or 'puncture' a portion of channel width that is affected by interference, resulting in the remaining channel being used for data transmission and eliminates bandwidth waste.

Greater Wi-Fi Efficiency by Leveraging MLO,4K-QAM, Multi-RU, MU-MIMO and OFDMA
With up-to-date Wi-Fi 7 new technologies, MLO(Multi-Link Operation), OFDMA, 4K-QAM, and MU-MIMO, For instance, Wi-Fi 7 introduces 4K-QAM, also known as 12-bit data modulation. Wi-Fi 6 used 1024 QAM (10-bit data modulation). The increase from 10-bit to 12-bit data modulation enables up to 20% higher data transmission rates to your Wi-Fi devices. EW-7822UN7 allows reducing latency, and facilitates higher speeds for applications that require high bandwidth.

Instant Upgrade and Works with All Wi-Fi
With quick and simple installation, the EW-7822UN7 USB adapter is the best choice for your laptop or PC, gaining an instant upgrade to Wi-Fi 7. It's stylish, slick, portable in design, so you can take it with you anywhere for Wi-Fi connectivity. Wide compatibly and backward compliant with 802.11a/b/g/n/ac standards, the EW-7822UN7 supports all existing Wi-Fi routers, access points and range extenders.

SPECIFICATIONS

HARDWARE

Interface	1 x USB Type A Port
Antenna	2 x Internal PIFA Antenna (2T2R)
Dimensions	31.5(H) x 19.0(W) x 8.5(D) mm
Weight	5.5g(0.19 ounces)

WIRELESS

Standard	• 2.4GHz: IEEE 802.11b/g/n • 5GHz: IEEE 802.11a/ g/ ac/ ax/ be • 6GHz: IEEE 802.11a/ g/ ac/ ax/ be
Frequency Band	• 2.4GHz: 2.4000~2.4835GHz • 5GHz: 5.150~5.825GHz • 6GHz: 5.925~6.425GHz *Subject to local regulations.
Maximum Data Rate	• IEEE 802.11 a/b/g/n/ac/ax/be compliant • 2T2R in 2.4GHz with support of up to 688Mbps Data rate • 2T2R in 5GHz with support of up to 2880Mbps Data rate • 2T2R in 6GHz with support of up to 2880Mbps Data rate • Support 20MHz, 40MHz at 2.4GHz bandwidth • Support 20MHz, 40MHz, 80Mhz and 160MHz at 5GHz bandwidth • Support 20MHz, 40MHz, 80Mhz and 160MHz at 6GHz bandwidth *Due to its compact size and USB port limitations, theoretical Wi-Fi 7 throughput and coverage may not be fully achieved. Actual performance varies based on network equipment and environment.
Security	• WPA3 Enterprise, WPA3-SAE (Personal), IEEE 802.1x ,WPA and WPA2

OTHERS

Supported Operating System	• Windows 10/11 *Additional version information will be announced on the EDIMAX website.	
Environmental Condition	Temperature: • Operating: 0~40°C (32~104°F) • Storage: -20~65°C (-4~149°F)	Humidity: • Operating: 10~90% (Non-condensing) • Storage: Max. 95% (Non-condensing)
Certification	CE, FCC, SRRC	

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.