Industrial AC650 Wi-Fi 5 Dual-Band USB Adapter

IEW-7811UTC

FEATURES

- **AC650 Wi-Fi 5:** Maximum data transfer rate up to 433Mbps (5GHz) and 200Mbps (2.4GHz)
- **Dual-Band Selectivity:** Selectable 2.4GHz and 5GHz band. Switch anytime for smooth and stable Wi-Fi connection
- **Wide Temperature Range:** Operating temperature ranges from -20˚C to 75˚C (-4°F to 167°F) for extreme environments
- **Secure Wi-Fi :** High level Wi-Fi security with WPA3-SAE (Personal), WPA2, WPA, WEP, 802.1x
- **Wide Compatibility :** Works with 802.11a/b/g/n/ac Wi-Fi router/AP/extender
- **Supported OS:** Windows and Linux
- **Application:** Ideal to use in outdoor low or high temperature environments, indoor rooms with heat dissipation difficulties and embedding in devices with limited space

OVERVIEW

The Edimax IEW-7811UTC is a dual-band 802.11ac USB adapter with a USB 2.0 connectivity that enables network connectivity with high-speed rates of up to 433Mbps (5GHz) and 200Mbps (2.4GHz), allowing greater Wi-Fi connection and in harsher environments. With dedicated, robust, outstanding electronics and mechanical design, the components are able to fit into small housings. The IEW-7811UTC can operate within a wide temperature range from -20˚C to 75˚C (-4˚F to 167˚F) for industrial and outdoor network deployment with capabilities of withstanding extremely hot and freezing conditions, ensuring excellent performance.

The high product durability design allows long-term usage, in addition, the IEW-7811UTC covers security, quality and wide compatibility. Expect seamless operations with Windows and Linux embedded system, further inter-operates with your existing Wi-Fi routers, AP and extenders without replacements or additional purchases.

Word's First Industrial Robust Design

Operating temperature ranges from -20~75˚C (-4~167˚F), suitable for use in extreme cold or hot environments. With dedicated, robust, outstanding electronics and mechanical design, the components are able to fit into small housings, that you can attach it to your device with ease. It is ideal for to use in outdoor environments, indoor rooms with heat dissipation difficulties and embedding in the devices with limited space.

Instant Upgrade to AC650 Wi-Fi 5

Just plug into your device or computer USB interface and follow the installation guide, you can then immediately connect to the Internet without cumbersome cable deployments and future wire cable maintenance. The IEW-7811UTC wireless connection supports up to 433Mbps in 5.0GHz band and up to 200Mbps in the 2.4GHz band.

Secure and Flexible Dual-Band

Offering high level Wi-Fi security with WPA3-SAE (Personal), WPA2, WPA, WEP and 802.1x, the IEW-7811UTC supports 2.4GHz and 5GHz selectable Wi-Fi. The 2.4GHz frequency band are always full of crowded applications and services with un-pleasant experiences. Leave the crowded 2.4GHz and you have an alternative 5GHz frequency band for more bandwidth and less congested wireless network.

Wide Compatibility for All Wi-Fi

Compliant with 802.11a/b/g/n/ac standards, the IEW-7811UTC supports any existing Wi-Fi 5/4 routers, access points and range extenders. Supports Windows and Linux OS, giving you the best options for your embedded system. You can connect to a network right away in available Wi-Fi locations.

SPECIFICATIONS

HARDWARE	
Interface	1 x USB 2.0 Type A
LED Indicator	1 x Link/Activity LED
Antenna	1 x Internal PIFA Antenna (1T1R)
Dimensions	27.95(L) x 16.03(W) x 10.56(H) mm (1.1(L) x 0.63(W) x 0.42(H) inches)
Weight	3g (0.106 ounces)
WIRELESS	
Standard	• 2.4GHz: IEEE 802.11 b/g/n • 5GHz: IEEE 802.11 a/n/ac
Frequency Band	• 2.4GHz: 2.4000~2.4835GHz • 5GHz: 5.150~5.825GHz *Subject to local regulations.
Max. Data Rate/Speed	• 11a: Up to 54Mbps • 11b: Up to 11Mbps • 11g: Up to 54Mbps • 11n (2.4GHz): Up to 200Mbps • 11ac (5GHz): Up to 433Mbps
Transmit Power	2.4GHz: • 11b(11Mbps): 17.8±1.5dBm • 11g(54Mbps): 15.8±1.5dBm • 11n(20MHz, MCS7): 14.8±1.5dBm • 11n(40MHz, MCS9): 12.8±1.5dBm 5GHz: • 11a(54Mbps): 15.5±1.5 dBm • 11n(20MHz, MCS7): 16.5±1.5dBm • 11n(40MHz, MCS9): 14.5±1.5dBm • 11ac(80MHz, MCS9): 12.5±1.5dBm
Receive Sensitivity	2.4GHz: • 11b(11Mbps): -93±2dBm • 11g(54Mbps): -70±2dBm • 11n(20MHz, MCS7): -68±2dBm • 11n(40MHz, MCS9): -59±2dBm 5GHz: • 11a(54Mbps): -67±2dBm • 11n(20MHz, MCS7): -65±2dBm • 11n(40MHz, MCS9): -57±2dBm • 11ac(80MHz, MCS9): -54±2dBm
Security	• WPA3-SAE (Personal), WPA2, WPA, WEP, 802.1x • Software WPS (Wi-Fi Protected Setup. Driver installation and WPS supported Wi-Fi device are required.)
OTHERS	
Supported Operating System	• Windows 10/11 • Linux Kernel 2.6.18 ~ 5.11 *Additional version information may be announced on the EDIMAX website.
Environmental Condition	Temperature: • Operating: -20~75°C (-4~167°F) • Storage: -25~80°C (-13~176°F) Humidity: • Operating: 0~90% (Non-condensing) • Storage: Max. 90% (Non-condensing)
Certification	CE, FCC

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