

IEEE 802.11 a/b/g/n Wireless WLAN Adapter Card

October 2010

Model # WN8522D2

Trademarks:

Other product and company names are trademarks or registered trademarks of their respective holders.

Table of Contents

Wireless Dual-band Network Adapter	1
Introduction	1
Features and Benefits	2
Hardware Description	2
Product Specifications	3
Compliance	5
Federal Communication Commission Interference Statement	5
CE	6

Wireless Dual-band Network Adapter

Introduction

The Wireless Dual-band Network Adapter (WN8522D2) is another cutting edge introduction in both 5GHz and 2.4GHz wireless communication for desktop and notebook computers. Designed for both your home and office, this wireless network adapter provides the speed, coverage and security expected by today's wireless users.

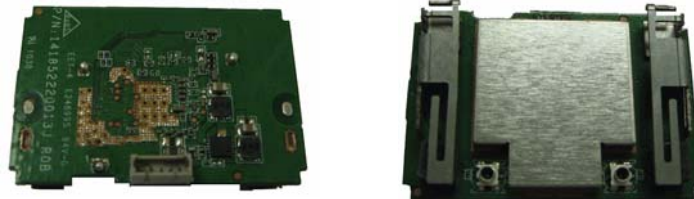
WN8522D2 is IEEE 802.11n compliant while maintaining full backwards compatibility with the 802.11a, 802.11b and 802.11g standards. It utilizes advanced MIMO (Multiple-In, Multiple-Out) technology to deliver incredible speed and range. The Wireless Dual-band Network Adapter provides better performance than existing 802.11g technology. Upgrading to wireless 11n network provides an excellent solution for sharing an Internet connection and files such as video, music, photos, and documents.

Features and Benefits

- IEEE802.11n,g,b compliant
- IEEE802.11a compliant
- Wireless speeds up to 300 Mbps
- Increased speed and coverage - up to 5 times the speed of IEEE 802.11g
- Fully backwards compatible with 802.11b/g wireless networks
- Replaces wired LANs at dramatically lower cost than wired alternatives
- Orthogonal Frequency Division Multiplexing (OFDM) and advanced MIMO (Multiple-In, Multiple-Out) technology provides high speed connection

Hardware Description

The WN8522D2 adapter provides 300 Mbps connections. It is fully compliant with the specification of the IEEE 802.11a/b/g/n standards.



Refer to the user's manual of your media device for configuration details.

Product Specifications

Wireless Network

IEEE802.11a: up to 54 Mbps

IEEE802.11b: up to 11 Mbps

IEEE 802.11g: up to 54 Mbps

IEEE802.11n: up to 300 Mbps

Operating Range

Outdoor: Up to 300 m (984 ft)

Indoor: Up to 100 m (328 ft)

Radio Signal

Signal Type

Direct Sequence Spread-Spectrum (DSSS)

Modulation: CCK, OFDM, MIMO

Operating Frequency

NCC (FCC) and Canada (IC): 2.412 ~ 2.462 GHz

NCC (FCC) and Canada (IC): 5.159 ~ 5.250 GHz, 5.725 ~ 5.825 GHz

Japan (STD-T66/STD-33): 2.412 ~ 2.484 GHz

Operating Channels

NCC (FCC) and Canada (IC): 11 channels

NCC (FCC) and Canada (IC): 5 channels

Japan (STD-T66/STD-33): 14 channels

Environmental

Temperature

Operating: 0 to 60 °C (32 to 140 °F)

Storage: -20 to 60 °C (-4 to 140 °F)

Humidity: under 60% (non-condensing)

Certification

CE Mark

EN 300 328

EN 301 489-1, EN 301 489-17

LP0002

FCC Mark

FCC Part 15(C)

FCC Part 15(B)

Software Drivers

Windows 2000

Windows XP

Windows Vista

Compliance

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

For operation within 5.15 ~ 5.25GHz frequency range, it is restricted to indoor use only.

Module User Requirements

When the module be installed into new host and a separation distance of more than 20cm from the human body. However if the module is placed into the host that is RF category portable, the FCC RF exposure requirements of the portable host must be properly addressed. The label shall include following message:

Contains FCC ID: BEJ9QK-WN8522D2

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

2.4GHz operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

This module is intended for OEM integrator. The OEM integrator is still responsible for the FCC compliance requirement of the end product, which integrates this module.

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

CE

This device can be operated in the EU without restrictions indoor.

However, operated outdoors in France is restricted to 2400 ~ 2454 MHz
(Channel 1 ~ 7).