iomega
an EMC company

SPADPT08

WiFi Adapter

Quick Setup Guide

Introduction

The iomega SP USB ADAPTOR is a convenient wireless connectivity solution for desktop or notebook PCs. Instead of stringing Ethernet cables to your PC or dismantling your desktop computer case, the SPADPT08 can enable 802.11n wireless connectivity by simply utilizing your desktop or notebook PC's USB port.

Powered by RangeBooster N™ technology, the SPADPT08 provides a faster wireless connection and superior reception than 802.11g*. The SPADPT08 is designed for use in bigger homes and for those that demand higher networking. Maximize wireless performance by connecting this USB Adapter to a RangeBooster N™ router and stay connected from virtually anywhere in the home. This USB Adapter supports WPA and WPA2 encryption to prevent outside intrusion and protect your personal information from being exposed.

Compact in size, robust in speed the iomega SP USB ADAPTOR is great for travel and a convenient solution for providing high performance wireless connectivity to your desktop or notebook PC. Enjoy the many benefits of wireless connectivity today!

Maximum wireless signal rate derived from IEEE Standard 802.11g and Draft 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental conditions will adversely affect wireless signal range.

Here is a list of features that can be found on the iomega SP USB ADAPTOR :

- Wireless 802.11n complaint and backwards compatible with 802.11b/g standards.
- Convenient Plug & Play installation.
- Compact size for easy placement around the computer.
- Supports Wireless encryptions like Wired Equivalent Privacy (WEP) and Wi-Fi Protected Access (WPA/WPA2).
- Support Wireless authentication methods like 802.1X.
- Support Wireless Infrastructure and Ad-Hoc topologies.
- MIMO (2 x 2) technology for extended reception robustness and exceptional throughput.
- Support IEEE 802.11e Quality of Service (QoS) Wi-Fi Multimedia (WMM).
- MIMO Power Saving mechanism.
- Channel management and co-existence.
- Bandwidth transmissions in both 20 MHz and 40 MHz.
- Maximum data rate of 54 Mbps (802.11g) and 300 Mbps (802.11n).
- Support Fast Receiver Automatic Gain Control (AGC).

Wireless Installation Considerations

The iomega SP USB ADAPTOR lets you access your network using a wireless connection from virtually anywhere within the operating range of your wireless network. Keep in mind, however, that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

1. Keep the number of walls and ceilings between the iomega adapter and other network devices to a minimum - each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (.5 meters), at a 45 degree angle appears to be almost 3 feet (1 meter) thick. At a 2 degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
3. Building Materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless routers, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (sh tanks), mirrors, le cabinets, brick, and concrete will degrade your wireless signal.
4. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.
5. If you are using 2.4GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone in not in use.

Basic Installation

This section will walk you through the installation process. If you have a built-in wireless adapter, please disable it in device manager before installing your iomega adapter. Also, if you have previously installed another wireless adapter, please make sure any software is uninstalled.

Installing the SPADPT08 Adapter

Before installing the wireless adapter, please note that you have to install the software rst BEFORE plugging the wireless adapter into the USB port of the computer. Not doing this might cause the wireless adapter not to function correctly.

1. Turn on the computer and insert the CD (included in the package contents of this product) in the CD-ROM of the computer. Installed on the CD is an auto-run application that allows the user to quickly access the contents of the CD easily.

   When the content application appears, click on the 'Install Drivers' option to start the installation of the required software and drivers for this product.

2. This is the welcome screen. To continue with the installation click on the 'Next' button.

   The utility will install the drivers and the accompanying les in the iomega > PADPT08 folder. To change the destination of the installed les click on the 'Browse' button and navigate to the desired destination folder. To continue with the installation click on the 'Next' button.

   At this point the user is prompt to insert the PADPT08 adapter into the computer for the first time.

   The Operating System will automatically initiate a universal wireless adapter driver installation process. Cancel the automatic driver installation initiated by the Operating System and continue to the to the next step of this installation by clicking on the 'Next' button.

3. This utility will automatically install all the required les in the destination specified.

   When the installation has been completed, a window will appear thanking the user for purchasing the SPADPT08.

There are two ways to connect to the wireless network using this adapter:

(1) By using the Operating System's built-in wireless utility.

(2) By using the Wi-Fi Protected Setup (WPS) button connection method.

Click on the 'Finish' button to complete this setup.

NOTE: 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 or more 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 and RSS-210 of the Industry Canada 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

IEEE802.11b ,IEEE802.11g and IEEE802.11n HT20 operation mode of this device in the U.S.A is firm ware-limited to channels 1 though 11, and channels 3 though 9 for IEEE802.11n HT40 mode.

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment has been SAR-evaluated for use in hand. SAR measurements are based on a 0.5cm spacing from the body and that compliance is achieved at that distance.

SAR compliance has been established in typical laptop computer(s) with USB slot, and product could be used in typical laptop computer with USB slot. Other application like handheld PC or similar device has not been verified and may not compliance with related RF exposure rule and such use shall be prohibited.