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Wi-Fi : Edimax N300 Universal Wi-Fi Extender Before you start: If you have not finished setting up your SWS, please do this before setting up Edimax Do not connect anything to the Edimax Ethernet port during setup as this will prevent the final step of setting up. Please contact your wi-fi password. 1) Plug Edimax into the power socket without anything attached to its Ethernet port. Press and hold the WPS button for more than 30 seconds until the power lamp starts flashing. 2) On your phone or PC, go to your wi-fi network settings. Join a network called EdimaxEXT.Setup XX. If the option to join the Edimax network does not exist then repeat step 1. 3) Open a web browser and type edimaxext.setup/ into the address bar (not the search bar). This will take you to the setup page. 4) Press the start button displayed in blue. 5) Select bridge mode, which is the middle option. 6) Select the router you want to connect to 7) Enter the password for your Wi-Fi network and press Next. Remember the password will be case sensitive. A connection test is now underway. If you get the wrong password, you'll get this screen - DON'T APPLY - back and enter the password again. 8) If the setting is successful, it will look like below and have a green check mark. You can then press Apply. You will see a safe screen. Now you can disconnect the seneye web server from your router and connect it to up to Edimax as shown at the bottom of the two images. The complete user guide to Edimax EW-7438RPN V2 is available here. Edimax N300 Universal Wi-Fi Extender helps you upgrade the wireless signal in your home to an additional room that may have poor signal reception. It's easy to set up and once you're done, you're ready to go. The introduction of Having a network cable mounted on your wall may be an excellent option if you own the home where you live, and you need the best throughput and network speed directly from your router. However, this is not always possible, and having a network cable running through your home sometimes looks very messy. Wireless is the only other option here, but wireless connection brings its own problems: 1). Your wireless router may not be able to give you 5 bars in all your 2 rooms). Performance decreases if you are too far away from wireless router 3). You need to buy a wireless card or USB wireless adapter to connect your system to router 4). Components that allow great wireless connections take up space on your system that can be used for other hardware. This is where Edimax's N300 Universal Wi-Fi Extender (EW-7438RPN) starts playing, allowing you to extend the wireless signal in your room. Expand the signal throughout your home helps eliminate at least the first two issues we listed above. But when we look deeper into what can be done, we will see that we can also eliminate the other two. Continue reading to find out how this might happen. Edimax N300 Universal Wi-Fi Extender can be purchased online for about \$40-\$50, which makes it a very cheap method to boost your original router signal throughout the house. In this review we'll also take a closer look at how we can use these two extenders to extend wireless signals in some homes in these neighborhoods, especially if you need your network connection in your community pool or maybe in another home you may have. We'll also check how we can share one Internet connection in two homes, saving you additional monthly network costs. Features & Specifications Extends the range of existing 802.11b/g/n Wi-Fi networks IQ Setup for easy Wi-Fi extension Finds best setup location for optimal Wi-Fi coverage with signal strength LED Compact, wall plug design for convenient placement Features a hardware WPS (Wi-Fi Protected Setup) button Hardware Standards Data Rates 1 x 10/100Mbps Ethernet LAN port WPS button Power switch 2 x internal antenna (2T2R) IEEE 802.11b IEEE 802.11g IEEE 802.11n 11b: 1/2/5.5/11Mbps 11g: 6/9/12/24/36/ 48/54Mbps 11n (20MHz): MCS0-15, up to 144Mbps 11n (40MHz): MCS0-15, up to 300Mbps Frequency Band Output Power Temperature 2.4000 – 2.4835GHz (industrial scientific medical band) 11b: 17±1.5dBm 11g: 15±1.5dBm 11n (20MHz): 14±1.5dBm 11n (40MHz): 13±1.5dBm Operating temperature: 0 – 40°C Storage temperature: -20 – 60°C Memory Sensitivity Humidity 11b @ 11Mbps: -84±2dbm 11g @ 54Mbps: -71±2dbm 11n (20MHz) @ MCS15: -68± 2dbm 11n (40MHz) @ MCS15: -64±2dbm Operating humidity: 10 – 90% (non-condensed) Storage moisture: max. 95% (non-condensed) Power Built-in 5V. Power Module 1A 76 (H) x 47(W) x 41 (L) mm Click Image to Enlarge Let's take a closer look at what we received with the Edimax N300 Universal Wi-Fi Extender. Note that you'll only get one box with your purchase, unless you order two units, but we'll display two extenders just because of the way we'll test this Wi-Fi expansion. The box is quite small, and fits in your hand. The outer cover sees all the features and specifications. For example we can see directly from the bat that this extender can offer throughput speeds of up to 300Mbps, equipped with easy IQ Settings, the possibility to easily create a wireless connection between your router and the extender simply by clicking the built-in WPS (Wi-Fi Protected Setup) on your router and extender, and of course iOS and Android support. Keep in mind that this extender also works on Windows-based systems. Click Image to Enlarge this special Extender called Universal Wi-Fi Extender for a reason, that's because this extender must be compatible with almost any device can connect to a wireless network, such as: Desktop & Laptop Printers Webcams Surveillance Systems Tablets Wi-Fi Enabled Phones The back of the box has some more information in different languages about Edimax EW-7438RPN. Opening the white box reveals another cardboard box, which includes an extender and some accessories. Let's take a look at that. Click Picture to Zoom In the box you will find the Edimax N300 Universal Wi-Fi Extender, along with some documentation and other accessories. You'll find the User Guide, the Installation Guide for WPS setup, a business card with a URL to configure your extender through your web browser, and a small CD for the electronic version of your User Manual and Installation Guide. Click Image to Enlarge the 3-foot-long CAT5E network cable also included with the EW-7438RPN for initial configuration and to enable direct LAN connections between extenders and systems that require a network connection. Finally, we have an actual extender. This is small, such as a phone charger, or a power adapter for certain electronic devices such as apple MacBook Air model power adapters. The FRONT WPS button allows easy connection between WPS-enabled Routers for initial installation. This means that users could potentially set up their extender without a network cable user. Additional LED indicators are on the front of the extender. We have a brief explanation of each LED and its meaning below: Click Image to Zoom in On the side of the extender we have a network cable connection. Extenders have the option to run network cables directly to your system for those who do not have a wireless adapter installed in their system. This allows users with limited space to also have a wired connection, although keep in mind that the extender still acts as a wireless adapter, so therefore the speed will not be as good as the network cable directly from the router to your system. Click Picture to Enlarge the bottom of the extender, or if the extender is plugged into the wall, then the left side of the right side of the extender has its/Off switch. This is just a simple On/Off switch that will completely turn off the extender, or turn it on when needed. Finally our last image shows the extender plugged into the power on our wall socket. Initial Settings To configure your Edimax N300 Universal Wi-Fi Extender, you first need to connect the extender to your system with the provided network cable. Make sure your primary Wi-Fi router and Edimax Wi-Fi Extender are both turned on. Now look at the small business cards you received with the extender, which should have a URL to access your Extender Admin Preferences. If you correctly have a URL, it will prompt you to enter a name and password. This will be set to Admin and 1234 1234 factory settings have not been changed. The Home page in Admin Preferences displays all the key information about your extender, including the type of security you're using, the channel where the signal was sent, along with the Extender name that other devices will see and lan settings information. The IQ Settings Tab Setting IQ is where we'll set up our extender to work with our main Wi-Fi Router. The first thing we need to choose is the router we have. In this case, the router with the name SSID NETGEAR. We'll enter the Extender name that we want to see appear as the SSID for the Edimax extender. We chose the name NETGEAR50448A, but you can name it anything. You should also create a key when configuring the Edimax extender, but keep in mind that your written key will be visible to the people sitting next to you during configuration. If the connection to your router is successful, the setup process will give you a Test Successful Connection message after about 1 minute of connection testing. Edimax N300 Universal Wi-Fi Extender must restart after configuration. This can take 2-3 minutes. Be patient and wait for the process to finish. If all goes well, Extender should now be usable for any device compatible with a 802.11b/g/n Wi-Fi connection. WPS Settings WPS (Wi-Fi Protected Setup) settings allow you to provide WPS connection methods to other devices. If you have a device that has a WPS type connection, it's just a matter of pressing a button and the device will connect to extender without any other configuration, or vice versa. Advanced Advanced Options settings are also available for more experienced users. MAC Address Filtering lets you enter the MAC address of a specific device to protect yourself from outside invaders or people who may want to connect to your Wi-Fi Expansion. System Settings allow you to easily change the login password for your extender, and also to set up and DHCP Server configurations manually or automatically. Finally, this last section allows the system to create a backup file if the settings have been manipulated with and the extender does not appear to be working for some reason. These backups can be restored at any time, or you can also restore your extender to factory settings. Upgrading the firmware on your extender is also very easy. You can download the new firmware from the Edimax website for your extender or repeater, and use the Browse updates section to select the firmware for your custom extender. Testing & Methodology To test the performance of the Edimax N300 Wi-Fi Extender, we will try to get our main Internet connection from our first home to our second home by using two Extender. Reasons why need two Wi-Fi extenders is because while we can use the first extender to extend our Wi-Fi network to another house (across the street), about 55 feet away, we don't get a good signal throughout the second house. This is why we use another Edimax N300 Wi-Fi Extender to increase the signal to all rooms in the 2nd house. In our tests, we will test PING, and Internet throughput for downloading and uploading. Internet Connection Information: 30Mbps Download 1Mbps Upload Test Rig Test Settings - Mac MacBook Pro Models, 15-inch, Early 2011 Intel Core CPU i7-2720QM Processor 2.2GHz (3.3GHz Max Turbo Freq) Ram Kingston HyperX Plug-n-Play 8GB (2x4GB) 160 Zalman N Series Memory Storage Drive 128GB SATA II SSD (Main SATA) Hitachi 7200RPM 500GB 2.5 SATA II Hard Drive (Secondary SATA) Optical N/A GPU AMD Radeon HD 6750M 1024MB Intel HD Graphics 3000 OS X Mountain Lion v.10.8.1 Windows 7 Professional (Used for Testing) Netgear N6 Router Information Results Dual-Band Wireless Router (WNDR3400) Direct Cat6 Network Cable Connection (Netgear Router) Here we are checking the settings where we have a direct network cable connection between our Netgear WNDR3400 router and our PC. We can see our network speed is 1.0 Gbps, which is 1000 Mbps. With this type of connection, you should have the lowest PING and highest network throughput. Now we'll check how fast our Internet connection is with this configuration. We received a very good 10 ms ping, which was only a delay of 0.01 seconds before we could send and receive information. Our download speed is close to our Internet connection speed, which is at 30Mbps. We got a download speed of 28.96 Mbps and an upload speed of 0.97 Mbps. Now let's see how moving to wireless settings can change network throughput and PING. Wi-Fi connection in The Main House (Close - Netgear Router) Now with this setting, we are approximately 5 feet away from our wireless router, which generates a 144 Mbps wireless connection with a 5/5 signal bar. It's as good as it gets with the wireless router we use. PING is still 10 ms, which is not surprising because we are very close to the router, but our download speed has dropped to 20.15 Mbp. This is a pretty big hit in speed, but for an Internet connection it should be good enough to stream online and download larger files. Keep in mind that wireless signals may deteriorate depending on the amount of outside wireless noise that may surround your Wireless Router. Wi-Fi connection in Main House (Far - Netgear Router) Moving throughout our main house still maintains a pretty good signal from 4/5 bar, but throughput drops to 78 Mbps according to Windows. This special house too big, but houses with multiple stairs and larger square foot coverage could have a much worse signal. That's where the Edimax N300 Wi-Fi Extender can come from Play. Being on the other side of the house, we get ping 2 ms slower, put it at a total of 12 ms. Download speed also drops to 19.50 Mbps, but upload speed is still maintained at 0.97 Mbps. Wi-Fi connection at 2nd House Down the Street (Netgear Router) Now we can check what happens when we move to another house across the street with neighboring houses in between. This time, it is very difficult to get a good Wi-Fi connection from the main house which has an internet connection. Therefore, there are many dropouts, and file transfers can be canceled by accident because of this. This is because there are only 1/5 bars available, and even the wireless connection throughput drops to 5.5 Mbps. When we check the Internet connection, we can only get a download speed of 1.65 Mbps and an upload speed of 0.54 Mbps. This is equivalent to a mediocre basic DSL connection. Wi-Fi connection at 2nd House Down the Street (Edimax N300 Universal Wi-Fi Extender) Now we test edimax N300 Universal Wi-Fi Extender in the 2nd house at the furthest point of the extender. Even as far as 40-50 feet from the extender with some walls on the way, we still get a throughput speed of 104 Mbps with the signal quality is 5/5 bar. Let's take a look at the speed of the Internet connection. Given that we are about 100-120 feet away from the main router where our wired Internet connection is connected, we still get a download speed of 14.88 Mbps, and an upload speed of 0.97 Mbps with a large PING of 15 ms. This is excellent considering the recommended 5 Mbps connection for online HD streaming from Netflix. This means that two homes can easily connect to a fast wired connection with just a Wi-Fi extender. In conclusion There are many types of Wi-Fi Extenders, repeaters, and signal boosters on the market, but they also come in many different shapes and specifications. Edimax N300 Universal Wi-Fi Extender that connects directly to your wall outlet is definitely something to consider, knowing that it supports an 802.11 b/g/n network connection, and throughput speeds of up to 300 Mbps. Configuring IQ settings and wps possibilities makes it very easy to configure with your current wireless router, and gets you up and running in a few minutes. Once the configuration is complete, the extender can be placed in any outlet in the home. Its LEDs give you a good idea of how well the extended signal you get from the main wireless router, and it makes it easy to connect to outlets that provide a still good connection between the main router and the extender for the best signal boost. Its small size makes it easy to hide in smaller locations and its white cover makes it look aesthetically attractive to the eyes. Finally Ethernet LAN network cable is on Edimax N300 makes it an excellent choice for users who don't have a Wi-Fi adapter in their system, making it possible to directly connect the extender to their system with a network cable. OUR VERDICT: Edimax N300 Universal Wi-Fi Extender Performance 8 Value 10 Quality 9 Features 9 Innovation 10 We use new additions to our assessment system to provide additional feedback beyond flat scores. Please note that the final score is not the aggregate average of the new ranking system. Manual or WPS setup is very easy. Expand the signal with a full bar in the 3-bedroom house. Using two, you can expand the Wi-Fi signal in two houses separated by another house with 5 full bars. Improved Low Ping Additional Advanced Settings on two LAN Connector Network Cable Extenders (CAT5/E/6) are available Occasionally internet dropouts (not Wi-Fi), however, can be a major router problem, not an Extender. Summary: Edimax N300 Universal Wi-Fi Extender price around \$40-\$50 makes this wireless extender an excellent low budget signal booster. Its easy-to-set configuration, and great performance earned him the Bjorn3D Golden Bear Award. Award.

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