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Netgear n600 dual band router specs

Image not available forColour: To view this video download Flash Player Simultaneous dual band Wireless-N offers twice the bandwidth with better connection and less interference ReadySHARE provides fast and easy shared access to an external USB storage device Broadband usage meter ensures accurate measurement of Internet traf ... Show More There are a few qualities that make a router an Editors' Choice: a simple setup process, a strong feature set, and excellent throughput. Many wireless routers have one or maybe two of those features, but the Netgear N600 Wireless Dual Band Gigabit Router (WNDR3700) (\$169.99, street) has them all. The N600 has great setup, and it's laden with features that will attract not only the tech savvy home user but business IT as well. And it's without question the second fastest router I have tested to date, offering breakneck throughput rates that easily outpace the competition. That adds up to an Editors' Choice. Cisco's Linksys E4200 managed the highest throughput we've seen at 137 Mbps, but with a touted capability of 450 Mbps, I expected to get higher throughput testing with a client that has a 3x3 wireless adapter. The N600 is a dual-band router with a maximum theoretical throughput of 300 Mbps. In real-world usage, if a wireless router can achieve half its theoretical throughput, that's superb performance. The N600 comes closer than any router I've tested to that level of throughput in benchmark results, hitting a killer maximum throughput of 121 Mbps. That excellent signal also remained fairly steady whether testing right next to or 30 feet away from the router. Simple Setup While the setup process is not as seamless as that of our previous Editors' Choice wireless router, Cisco's Valet, Netgear makes setup easier than in any of its older routers with the new Genie app. Some basic knowledge of wireless networking is required to get the N600 setup correctly, but the Genie app is a big improvement over the quirkier Setup Wizard found in older Netgear routers like the RangeMax Wireless N Gigabit WNR3500 . Genie offers a more logical step-by-step process than the older setup, and it has great graphics of how to connect the router in a network. Netgear hasn't offered routers to get excited about in the last two or three years. If the intention was to wait until it could offer a stellar Wi-Fi router like the WNDR3700's, then kudos to Netgear! While most routers are getting thinner and sleeker—consider Cisco's latest E-series line—Netgear has not strayed too far from the RangeMax router design that debuted couple of years ago. Like most Netgear routers, the N600 is larger than most competing Wi-Fi routers in the market, measuring 8.8 by 6 by 1.2 inches (HWD) and weighing a little over a pound. The N600 comes bundled with a stand so that the router can be operated in an upright position. I like the fact that Netgear gives you this option, as it offers more positioning and placement flexibility. The front panel features two buttons: one for WPS, and the other to disable the wireless signal with just a touch. Its back houses four Gigabit Ethernet ports, a WAN port, and a USB port for attaching external storage. Inside is an Atheros AR7161680 MHz MIPS 32-bit processor, 8 MB flash and 64 MB RAM. Wi-Fi specs include a 2.4 GHz Atheros AR9223 2x2 MIMO radio and a 5 GHz Atheros AR9220 2x2 MIMO radio. Setup Setup The new Genie app is a refreshing change from the Smart Wizard interface that Netgear has used in previous years, as Genie intuitively walks you through the setup process after installing it on a Mac or PC. If there's one criticism I can levy against it, it's the fact that the instructions are too detailed. There's actually a step that directs, "Take the adapter labeled from the box and plug it in." I suppose Netgear is competing with Cisco's Connect software, which makes setup virtually idiot-proof, but I'm not sure that level of detail is needed, as the N600 will likely be embraced by a more tech-savvy bunch. Still, it's a vast improvement over the previous setup process: I had the router up and running in minutes. Once the router is physically connected and everything is plugged into the right place, the Genie app walks a user through configuring the router. Advanced users at this point can go right into the router's interface and use Netgear's traditional management console settings. But, the Genie does a nice job of setting up SSIDs (one for each radio band) and network security. Of course, Genie offers only basic setup. If you want to do more to customize your network, check out How To Set Up A Home Network In 5 Simple Steps. Router and NAS Features The N600 will delight wireless networking geeks because there are just so many features to fiddle with. It's also one of the first wireless routers I've seen with an area in the management interface for IPv6 settings, so whenever your ISP deploys IPv6, all you would need to do is enable IPv6 in the router. The N600 offers the same features that a lot of higher-end routers do: guest networks, a media server, UPnP and WPS. The N600 offers extras like the ability to configure it as a repeater or bridge. There's also a Traffic Meter which will allow you to record the amount of Internet traffic passing through the router's Internet port. You can setup a monthly limit on all traffic (or just one direction traffic) and configure the internet LED to flash when the monthly limit is reached or you can disable Internet access altogether when the limit is reached. Experienced users can also control very specific settings like Fragmentation Threshold, CTS/RTS Threshold and Preamble Mode. As mentioned, the N600 can serve as a light-duty NAS. I connected a Cirago external drive to the USB port. There's a utility on the setup CD called ReadyShare which will automatically map a drive to shares on the connected USB device so you can access from Windows Explorer. You can also manage data and shares via the Netgear interface. It's not a speedy way to copy or share large files, though, I copied a 1.5 GB movie clip from my storage device to my desktop—it took over 6 minutes to complete. A traditional dedicated SATA drive NAS can do the same job in approximately two minutes, but it's still a convenient way to share smaller files with others connected to the router. Parental Controls Although the N600 is suitable for smaller businesses, Netgear offers Live Parental Controls, for those who want to use it as part of a home network. To use Parental Controls, you have to first establish an OpenDNS account, which the Netgear software walks you through. While Live Parental Controls doesn't give parents the ability to customize Internet browsing, there are several different control levels that can be applied to the family network which can prevent kids from accessing the seedier side of the Internet. Levels range from Low—which blocks porn sites and phishing attempts to High—which really puts the Internet on lock-down and blocks all adult-related sites, illegal activity, social networking sites, video sharing sites, phishing attacks, and also against that which the Netgear documentation curiously calls sites that are "general time-wasters." I tried out the High level. Blocking went into effect immediately, even without having to close out and re-open the browser. I could not get to Facebook, Twitter or any online gaming sites. I couldn't even browse sites advertising guns; forget about porn. Although Live Parental Controls are effective, techier parents or those with older children may want more granular control and use the content filtering controls inside of the management interface. You can do additional configuration with content filtering like blocking specific sites on a schedule or block services such as AIM or PPTP. Live Parental Controls offer just as strong content filtering, but the content filtering in the interface gives you more customization. Throughput Performance Throughput Performance Using Ixia's IxChariot I tested the throughput of this router and saw impressive results. The results I received were due to this well-engineered router and because I used one of the few laptops currently available that has a 3x3 wireless adapter capable of handling high throughput—HP's EliteBook 8440w. Here are the results of the average maximum throughput at varying distances with the router configured with WPA2 applied and at the 5-GHz band compared to two other high-throughput routers: The Cisco Linksys E3000 High Performance Wireless-N Router has higher throughput, maxing at 137, but I did expect results even higher with it because the vendor touts 450 Mbps. While the E4200 has the best router throughput I have seen in the lab to date, the also excellent throughput and awesome feature set of the N600 gives it a slight edge. The throughput you might get with the N600 will, of course, depend on the physical topology of your network, as well as the RF environment with which the signal has to contend. While you'll never be able to hit theoretical throughputs, there are many ways you can tweak your router's performance, as detailed in 10 Ways to Boost Your Wireless Signal Netgear's Back It's been sometime since we have seen new and noteworthy routers from Netgear. With the N600, the vendor is back in the router game with a vengeance and is sure to give Cisco Linksys a run for the money. And there's more coming from Netgear. We're anxiously awaiting the next iteration of the N600, the WNDR3800 which was announced at this year's CES. It's supposed to have all the goodness of the N600 with an additional capability: Clear Channel select, which has built-in technology to avoid the router getting set on the busiest Wi-Fi Channels. For now, the Netgear N600 Wireless Dual Band Gigabit Router is an excellent device to consider. Sign up for Lab Report to get the latest reviews and top product advice delivered right to your inbox. This newsletter may contain advertising, deals, or affiliate links. Subscribing to a newsletter indicates your consent to our Terms of Use and Privacy Policy. You may unsubscribe from the newsletters at any time.

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