Learn about mesh routers

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Have you ever wondered if there is a solution to the problem of unstable Wi-Fi signal in your home? Does your home have dead spots, where Wi-Fi signals cannot reach, such as basements, attics or garages? In such cases, using a mesh router may be useful.

Mesh router is the latest technology for home Wi-Fi networks. Mesh networks have been used for many years in important places, where a highly secure network plays a very important role, like a military base or businesses. (In such cases, the network is often isolated and not connected to the Internet). Currently, wireless Internet users in households can optimize their home Wi-Fi with a mesh network.

If you have a large house - an area of ??at least 3,000 square feet - or one with a special layout, such as a two-story structure or a brick wall inside, you can often encounter dead zones Wi- Fi and the mesh router system may be your only end.

A number of big names have been really outstanding in finding popular mesh router-related solutions over the past few years. Top names include familiar network companies, like Netgear Orbi, Linksys Velop and Samsung Connect Home Pro, while others are also making their own names with mesh systems, like Google. Wifi, Ubiquiti Amplifi and Eero Mesh Router.

With this increasing popularity, you may wonder if a mesh router is right for you. Today's article will give you information about this latest upgrade to a home Wi-Fi network, to help you decide if this solution can work in your home.

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Wireless mesh router basics

The router is at the heart of the traditional Wi-Fi network. The main part of the device emits a wireless signal that other devices can connect to. A router, as its name suggests, constantly routes Internet traffic between a connected modem and Wi-Fi-enabled utilities, such as computers or tablets. Most people completely forget their router, until the Wi-Fi signal has a problem.

The main problem with traditional routers is the limited reach of the signals they send. Large buildings that need access to the Internet on multiple floors often have areas where the service is limited or non-existent, sometimes called 'dead zones', when the main network uses a standard single-point router.

Mesh routers can help eliminate these dead zones. Instead of broadcasting Wi-Fi signals from a single point, mesh router systems have multiple access points. A point connects to the modem and acts as a router, while one or more other access points, often called satellites, pick up the router's signal and replay it.

Benefits of mesh routers

In addition to creating a reliable, powerful Wi-Fi signal, mesh router systems have several other outstanding benefits. Here are some of the biggest advantages.

1. Easy network management

A key feature of router router systems with traditional routers is the easy network access feature they provide. Many mesh router systems are fully automated, allowing for easy management through a mobile application, even when you're not at home. Many mesh router applications allow users to quickly scan speeds, cut Wi-Fi connections with certain networks, create guest networks, check quality between different connection points and even connect devices. Smart home. Some high-end traditional routers have similar features, but you will often have to connect to the local network from the web interface on the desktop to activate them.

2. Reasonable connection

For traditional routers, devices called range extenders are often used to repeat signals, enabling users to access Wi-Fi remotely. However, many extenders require you to create a separate network, with a name of its own. This means you may have to switch Wi-Fi connections, sometimes manually, as you move around the house. On the other hand, the mesh router system does not require constant reconnection, even if you move from room to room. You also won't have much trouble with lag, because access points all broadcast the same signal, rather than having to route requests across multiple networks.

3. Strict security

Along with easy management, some home-use mesh routers come with very good security support. Thanks to the ease of network management, keeping your router devices safe is not difficult - many mesh router devices automatically check, update and install firmware. (Until recently, most routers had to be manually updated by the owner.) Luma ensures a bit more security by screening known malicious websites.

Restrictions of mesh routers

Mesh router systems, like most other network devices, are not without drawbacks. Here are a few examples of network router limitations.

1. High cost

A good router mesh will cost $ 300 or more (more than 6.5 million VND) and additional satellites cost between $ 100 and $ 200 (2,000,000 - 4,000,000 VND) per set. A good traditional router usually only costs about $ 100 (more than VND 2,000,000), while range extenders range in price from $ 20 to $ 100 (about 400,000-2000,000 VND).

2. Resources are wasted

In small houses and buildings, using mesh routers can be a bit wasteful. If you don't often have Wi-Fi connectivity problems, or if you don't have a big need to use the Internet, you don't need mesh routers. Some Wi-Fi dead zones can easily be overcome by using range extender or switching the position of the current router to another central location, or upgrading to a better traditional router with it more micro.

3. Other equipment

Since most access points in the mesh router system are very small and discreet, you may need some of these access points to make the most of their capabilities. This means finding places for multiple devices in your home can become problematic, if you only want to keep networked devices in one or two locations discreetly.

Do you need a mesh router system?

Many traditional routers will not be suitable for large multi-storey houses and have solid walls, elements that prevent wireless signals. Also, if you're interested in smart features in your home, the easy remote management that router meshes provide through mobile applications is a huge advantage.

On the other hand, if you live in a small house or apartment and only have frequent Wi-Fi signal instability, you may not need a mesh router. A simple range extender, or even a wider range router will work well to fix dead zones, and you won't have slow Internet speeds or dead spots anymore. If you get tired of resetting the router or adjusting the antenna continuously, it's a good time to upgrade to a new, larger-scale traditional router, or a mesh router or range extender, depending according to your situation and budget. All are optimized to deal with house obstructions and can connect on multiple frequencies.

There are many wireless networking products that can help boost your Wi-Fi signal at home, so analyze your current Wi-Fi needs to determine which solution is best for your home.

Wish you can choose the right product!

See more:

1. What is the Wi-Fi Mesh system? How does it work?
2. Set up an Open-Mesh wireless network for Linux

3. The process of setting up a wireless network
4. Instructions for fixing Wifi errors with yellow exclamation

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