

# What is Wifi Mesh system? Why should you use Wifi Mesh?

What is Wifi Mesh? How is Wifi Mesh different from a range extender? TipsMake will provide detailed information about Wifi Mesh in the following article. Do not miss it!

In recent years, traditional Wifi systems have increasingly revealed many weaknesses such as unstable connection speed, high installation costs and low coverage area. Therefore, many users have started switching to using Wifi Mesh to replace the old broadcasting system. So what is Wifi Mesh? And what outstanding benefits does this tool have? Let's find out with TipsMake in the following article.

## What is Wifi Mesh?

**Wifi Mesh** or **Wifi Whole Home** is a wide-area Wifi network system consisting of two or more Wifi broadcasting devices (can be a main router directly connected to the modem and many other satellite modules) together. operate in unison with each other. The goal is to eliminate Wifi '**dead spots**' while providing a wide, seamless coverage area throughout your home.

Picture 1 of What is Wifi Mesh system? Why should you use Wifi Mesh?

Unlike traditional Wifi routers, the Wifi broadcasting devices in the Wifi Mesh system are mainly wireless networks, sharing the same **SSID and password** . Besides, the Wifi Mesh system also possesses many access points with high speed and wider coverage area than traditional Routers.

When a device connects to the modem, it becomes the primary device. The remaining devices (called 'nodes') will receive signals from the main device and rebroadcast the Router's signal. Thanks to that, users will have a Wifi network with strong signal strength no matter where in your home.

## Who needs to use Wifi Mesh?

**Wifi Mesh** is designed to create stronger coverage for people with weak Wifi coverage or no Wifi signal. Normally, traditional routers will have limited coverage and cannot cover the entire house. Especially for houses with two or more floors, thick brick walls or special designs. However, with Wifi Mesh, users can still receive extremely strong Wifi waves even when living in a large and multi-storey house.

Picture 2 of What is Wifi Mesh system? Why should you use Wifi Mesh?

Besides, Wifi Mesh is also an ideal choice for those who want a strong Wifi system but are afraid of the complicated settings of a traditional Router. In addition, this system is also extremely suitable for those who are

using a signal extender but do not want to frequently switch back and forth between Wifi networks when moving around their home.

## Why should you use Wifi Mesh?

The Wifi Mesh system not only helps users overcome the 'annoying' disadvantages of traditional Routers but also brings many practical benefits as follows:

### 1. A single network for the whole house

With Wifi Mesh, users will now no longer have to log in to a new Wifi network every time they need to move to a certain location in the house that is far from the Router. Because Smart Mesh technology not only provides seamless connectivity for the whole home, but also allows you to stay online even if a certain 'Mesh node' malfunctions.

### 2. Stable long distance connection

**Wifi Mesh** will provide users with a stable Wifi network with fast speed and high coverage. So whether you are upstairs or in the basement, your phone can still connect to the internet through the Wifi Mesh system for the whole house.

Picture 3 of What is Wifi Mesh system? Why should you use Wifi Mesh?

### 3. Easy to install and manage

Compared to traditional Routers, Wifi Mesh networks have simpler installation and management methods. Users can easily change network settings, test connection speed, specify hotspots or activate control with just a few basic taps.

### 4. Smart home control

Currently on the market, some types of Wifi Mesh such as **TP-Link Deco M9 Plus** have the ability to operate similar to a smart hub, allowing users to manage all smart devices in the home through the application. The only one named Deco. This application will also **automatically connect** to Zigbee, Bluetooth and Wifi devices displayed in the house.

## Advantages and disadvantages of Wifi Mesh

Any Wifi broadcasting system has its own advantages and disadvantages. And the Wifi Mesh system is no exception.

### Advantage

Below is a table of advantages of Wifi Mesh that TipsMake selected:

**Criteria**

**Content**

<b>Reduce installation costs</b>	Because Wifi Mesh's broadcasting devices are all wireless networks, users will not need to spend too much money on network installation, especially for areas with large coverage.
<b>Fast connection speed</b>	With Wifi Mesh, the more hotspots there are, the wider the wifi network and the faster the connection speed.
<b>Wide coverage</b>	This system is an ideal solution for enhancing network connectivity in large locations such as parks and theaters, where wireless Wifi signals are often blocked or poorly connected.
<b>Ability to connect automatically</b>	The hotspots in the Wifi Mesh system will automatically connect to each other to create a complete internet network without the intervention of any network administrator.
<b>Easy to install and highly aesthetic</b>	Wifi Mesh only requires a compact transmitter and an electrical outlet. Instead of having to spend effort to install traditional wifi routers and complicated wiring that does not guarantee the aesthetics of the house.
<b>Highly secure</b>	Due to increased network connectivity, information security is increased, limiting information theft when using the internet.

## Defect

Below is a table of disadvantages of Wifi Mesh that TipsMake selected:

Criteria	Content
<b>High installation cost</b>	Because it is a new, modern and advanced Wifi connection technology, installing a Wifi Mesh network is often quite expensive.
<b>There are no advanced features</b>	The Mesh Wifi connection system does not have many advanced features like regular routers. In return, this network still has a few interesting features of its own such as guest mode, limited access rights and parental controls.

## How does Wifi Mesh work?

The Wifi Mesh wireless Internet connection system works by using two or more Wifi broadcasting devices called '**Mesh nodes**' to create a complete Wifi Mesh network. One Mesh node will be connected to the main modem, while the remaining nodes will be placed in different locations in the house to form a uniform network.

Unlike traditional routers, Mesh nodes are a **fixed part** of the Wifi Mesh system, so they will use the same SSID and password. This will make the process of installing and scaling the system simpler as users can arbitrarily add or remove Mesh nodes if desired.

Picture 4 of What is Wifi Mesh system? Why should you use Wifi Mesh?

Besides, Mesh nodes not only have the role of connecting to the main modem but also '**communicating**' with each other. The purpose is to select the fastest band for your device and automatically coordinate rerouting if any Mesh node in the system has a problem.

Especially with Wifi Mesh, the more hotspots and wider the wireless network connection, the higher the Wifi coverage and a Wifi Mesh system can even be used for an entire office or in a large city. there are millions of people.

# Comparison between Wifi Mesh and range extender? Which type should I use?

According to technology experts, although Wifi Mesh systems and range extenders have almost the same function, that is to increase the router's broadcast signal. However, there are still some key differences between these two types of devices. In which, Wifi Mesh possesses many outstanding advantages compared to signal boosters.

Specifically, Wifi Mesh is a **wireless network connection system** that supports roaming protocol (helping you always be on the same network). This device also has the ability to automatically restore and adaptive routing to help keep your connection stable.

Meanwhile, a range extender is a tool used to increase Wifi **coverage** . To use this tool, users will have to log in to the new network manually through the router's complicated admin page.

Picture 5 of What is Wifi Mesh system? Why should you use Wifi Mesh?

Each Mesh node will be able to act as a router and be easily managed through a single application called Deco. This application not only makes changing settings simpler, but also helps users control the entire Wifi Mesh system at the same time.

On the other hand, compared to a signal booster, the Wifi Mesh system has a higher signal transmission speed, and also allows multiple routers to link together in any order to contribute to increased bandwidth. Coverage for all connected electronic devices. Meanwhile, traditional signal boosters only stop at connecting to the main modem and increasing the signal for this device.

From there, it can be seen that the Wifi Mesh system can completely be used to replace a signal extender as well as bring users more impressive benefits in terms of connection speed and widespread coverage. .

## Features of Wifi Mesh

The Mesh Wifi system possesses many attractive features. As follows:

### 1. One network name, one password

**Wifi Mesh** allows users to log in to a common network connection with just one network name and one password. Because all Wifi broadcasting devices in the Wifi Mesh system **use the same SSID and password** to ensure a seamless Wifi connection experience for users.

### 2. Smooth roaming

This feature will help users stay online even if a Mesh node in your system has a problem. At this time, Wifi Mesh will automatically reroute data to ensure the connection is always stable and not clogged.

Picture 6 of What is Wifi Mesh system? Why should you use Wifi Mesh?

### **3. Adaptive routing**

The Mesh Wifi Router uses an adaptive routing mechanism that automatically selects the best configuration and frequency band to give users the fastest possible data transmission speed.

### **4. Self-healing**

In case a Mesh node in the system has a problem, the Wifi Mesh system will quickly turn on the automatic recovery feature to ensure the user's internet connection process is always smooth and seamless.

## **Frequently asked questions about Wifi Mesh?**

Below are the two most frequently asked questions when users learn about Wifi Mesh:

### **Does Mesh Wi-Fi work if I have walls or obstructions in my home?**

Have! The Mesh Wi-Fi system will work even if there are obstacles. However, most routers (including Wi-Fi Mesh) can experience connection drops due to environmental factors.

If you have thick walls, you will probably have a better experience with a powerline internet adapter.

### **Do I need to buy a new router to have Wi-Fi Mesh?**

You can upgrade your existing compatible TP-Link router to use OneMesh via a new firmware update, and link the device to a range extender or internet router through the powerline to experience Wi-Fi. -Fi Mesh.

## **Epilogue**

Hopefully, through the sharing from the above article, readers will understand what Wifi Mesh is as well as the benefits that this system brings in connecting to the internet. If you have any questions, please let us know by leaving them below in the comments section of the article.

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