

# Basically about Wireless Networking

Wireless Networking (Wireless Networking) is a new solution for office, home, or large network models where Ethernet networks cannot work. Installing a basic wireless network is simpler than the Ethernet (Wired Network) network, and you can easily import more PCs or other devices to the network. In this section, we will introduce you to the basic equipment and general knowledge about devices in a wireless network.

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## **A wireless home network.**

Devices that support wireless networks using 802.11g (54MBbps) are a bit more expensive than devices that use 802.11b (11Mbps), but they are nearly five times more capable. In contrast, 802.11a devices are even more expensive than 802.11g devices but perform poorly, the range of operation is not high so it should not be used for your wireless network. Selecting devices to use for wireless networks is also an important issue within your financial range. You can use devices that combine many functions such as Linksys WCG200 Wireless-G Cable Gateway (both cable modem and router).

Therefore, in this article, we show you how to prepare 802.11g-based network settings and devices that support it, because 802.11g is being considered as the standard for wireless networks due to operating results. , price as well as its scope of operation, and its compatibility. Moreover, most of the top wireless network devices are still Linksys, so the Linksys devices will be available for the article.

## **Wireless Router:**

Picture 1 of Basically about Wireless Networking

*Linksys WRT54GS Wireless-G Broadband Router with SpeedBooster.*

Wireless routers connect to the Internet and allow PCs and other devices in the network to communicate with each other. We recommend the Linksys WRT54GS Wireless-G Broadband Router. It has excellent performance and with SpeedBooster (\*) it helps to increase performance even more than 802.11g devices.

## **Wireless Adapter:**

## Picture 2 of Basically about Wireless Networking

### *Linksys WMP54GS Wireless-G PCI Adapter*

In PC systems with new models today, integrating additional wireless adapters is very common, especially in laptops that are almost a must-have device, so first review your component components carefully. See if it is available or not.

To add wireless adapters to your Desktop PC, refer to Linksys WMP54GS Wireless-G PCI Adapter that supports SpeedBooster with removable antennae that can be moved or replaced as needed.

## Picture 3 of Basically about Wireless Networking

### *Linksys WPC54GS Wireless-G Notebook Adapter*

If your laptop needs a wireless adapter, you can use Linksys WPC54GS Wireless-G Notebook Adapter. Or the laptop has an adapter that supports the 802.11b standard, so depending on your financial capabilities, you can replace the WPC54GS to improve the speed of operation in the wireless network.

Another option is to use an external wireless adapter with a USB interface such as Linksys WUSB54G Wireless-G USB Network Adapter.

### **Access Point:**

The next thing to note is that if you have a wide range of wireless networks, you should add more Access Points to increase network performance. Access Point is like a router but does not support the firewall function, it is used when you have a router with a firewall and to enhance the signal transmission when the wireless network is wide and separated by many objects. block like wall.

### **Wireless Print Server:**

## Picture 4 of Basically about Wireless Networking

### *Linksys WPS54GU2 Wireless-G PrintServer*

For a hot spot or home network, a wireless print server cannot be missing. They will bring printing convenience even if the wireless printer is in any location. The printer does not need to connect to any PC, and users in the network are not through anyone else to use printing.

For example, Linksys Wireless Print Server is the Linksys WPS54GU2 Wireless-G PrintServer that supports both standards is parallel and USB 2.0. You can plug both printers if you have 2 printers.

### **Reconcile Wireless and Wired (Ethernet):**

Maybe for some reason you want to combine both wireless (Ethernet) and Ethernet (wired) networks together, the first requirement is that you can provide network signals for both wireless devices and Ethernet. Simply with the Linksys WRT54GS Wireless-G Broadband Router that we introduced earlier, it can take care of both tasks.

If you already have a router for your Ethernet network and want to add more wireless devices to the network, there's no need to replace it with a new wireless router, just use an Access Point like the Linksys WAP54G Wireless-G. Access Point.

## Picture 5 of Basically about Wireless Networking

### *Linksys WET54G Wireless-G Ethernet Bridge*

In case you need to install a home network for two different regions, wireless network is the solution for you. However, for some reason, such as equipment, finance, etc., it is not necessary to connect them to both long-distance cables. The solution is to use a Wireless Ethernet Bridge. Wireless Ethernet Bridge allows Ethernet devices to connect to the wireless network. You can refer to Linksys WET54G Wireless-G Ethernet Bridge. It supports any Ethernet device that connects to a wireless network whether that Ethernet device can be a single device or a router that connects to many other devices.

It is possible to set up two access points to create a wireless bridge, but there are a lot of performance limitations, so using a standard wireless bridge like WET54G will help your wireless router or access point work normally. Connect to multiple wireless devices at the same time. Wireless bridges link groups of Ethernet (wired devices) in a wireless network.

### **Finally, you should note the following for device selection:**

- 802.11a standard is not compatible with 802.11b and 802.11g, it is only compatible with itself, is 802.11a. In contrast, 802.11b and 802.11g standards are compatible, but you should use 802.11g-enabled devices to make the most of it.
- Access point has no firewall, so you should not use the access point to connect between the wireless network and the Internet for security reasons.

*(\*) SpeedBooster is Linksys technology and is only available on its devices, which improves speed by up to 35% if the wireless adapter and wireless gateway use SpeedBooster.*

### **Tran Thanh Truc**

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