

Transferring data via Wi-Fi

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He Who Controls the Information Controls the World
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XXI century is a century of hightech. The fast access to information is a priority. Via the Internet information can be got much easier. But there are some situations when the cable connection is imposible. And Wi-Fi technologie is the best solution.

No matter what your lifestyle is Wi-Fi technology can play an important role in making it more productive, convenient and pleasant. Wi-Fi is not just a new word in the Internet development; it is a huge step forward in creating ways to work effectively. Freedom of movement is no longer limited by cable length or placement in the space.

Wi-Fi - is the latest way of wireless data transmissions, which guarantees high-speed Internet access, and maintains a quality connection.

Being developed in 1991, the principle of work remained unchanged, but the opportunities have expanded considerably and now Wi-Fi in no way inferior, and sometimes superior to the classic cable networks. Installing the Wireless LAN was recommended where the deployment of cable system was impossible or economically impractical. At present many organizations use Wi-Fi, because the speed of the network already exceeds 100 Mbit / sec. Users can move between access points across the network coverage Wi-Fi.

Mobile devices (PDAs, smart phones, PSP and laptops), equipped with Wi-Fi client receiving and transmitting devices now can be connected to the network and get access to the Internet through the access point or hotspot. Wi-Fi networks have been widely disseminated both in enterprises and for home use. Just install one access point at your office and equip the system blocks of your computers with special adapters, and the network is ready.

By means of Wi-Fi you get rid of dozens (if not hundreds) of meters of cable. Moreover, Wi-Fi makes it possible to provide Internet access anywhere in the room and even outside it. However, the greatest degree of comfort of Wi-Fi offers for home users. If the access point Wi-Fi is in your home, you needn't to sit for hours at a computer desk. Being in any place in your apartment or cottage, you need only insert the Wi-Fi adapter in the usual USB-connector, and you will provide high-speed Internet access. Wi-Fi uses radio waves - just like cellular phones, TV and radio - to create reliable high-speed connections between computers, printers, gaming devices, cameras, phones and home entertainment systems. You can use Wi-Fi in your home, at work or on-the-go at hotspots worldwide. Usually scheme of Wi-Fi network contains at least one access point and at least one client. It is also possible to connect two clients in point-to-point, when the access point is not used, and customers are connected through the network adapter "directly". Access point broadcasts its network identifier (SSID - service set identifier) with special signaling packets at a speed of 0.1 Mbit / s every 100 ms. Therefore, 0.1 Mbit/s - the lowest rate for Wi-Fi. Knowing the SSID of the network, the client can determine the possibility of connecting to an access point. When injected into the zone of action of the two access points with identical SSID, the receiver can choose between them on the basis of data on the level of the signal. Wi-Fi standard gives the customer complete freedom in choosing the criteria for the connection.

Today Wi-Fi networks are widely implemented and used. Maybe it will not fully replace cable connections, but it will further develop, as there is still room for improvement.

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