

Top 6 best WiFi routers, supporting WiFi 6

Whether or not computers can capture WiFi stably and well depends a lot on the WiFi transmitter. The higher the quality of the transmitter, the more guaranteed the signal transmission speed will be.

WiFi speeds are constantly increasing as newer standards and competition push ISPs to offer more robust connections. But the router provided by your ISP may not be enough to fully utilize your new high-speed WiFi network. Replacing your default router with a new WiFi 6 router can significantly increase the coverage and reliability of your home's WiFi network. This list will introduce you to the best WiFi 6 routers today for reference.

1. TP-Link Archer AX55 Pro

TP-Link Archer AX55 Pro is arguably the best WiFi 6 router for most home setups because it supports essential WiFi 6 technologies, like OFDMA (for better simultaneous management of multiple devices) and 1024-QAM (to increase transmission speed), this is not always seen in every WiFi 6 router.



The router supports speeds of up to 2402 Mbps on the 5GHz band and up to 574 Mbps on the 2.4GHz band. It also supports 160MHz channel in the 2.4GHz band to avoid other crowded channels, ensuring seamless connection. You even get a 2.5Gbps WAN/LAN port and a 1Gbps WAN/LAN port to connect directly to your desktop, TV, or gaming console.

TP-Link also offers HomeShield software for advanced security and parental controls if that's important to you. Archer AX55 Pro ensures you're ready for faster speeds on both the 2.4GHz and 5GHz bands in the future.

Advantage

1. Speed up to 3Gbps
2. Support options
3. OFDMA and for many devices
4. Supports OneMesh to expand coverage
5. Free VPN for client devices

Defect

1. Not the cheapest option
2. Some HomeShield features require registration

2. Asus RT-AX1800S

When buying a new router, it can be easy to get confused with the technical specifications and marketing jargon. If you want a router that has good reviews, works efficiently, and doesn't cost a lot of money, the Asus RT-AX1800S is a choice worth considering. This is the AX1800 router, supporting speeds up to 1.8Gbps (theoretically).



While speeds of up to 1201 Mbps and 574 Mbps are supported on the 5GHz and 2.4GHz bands respectively, real-world performance is much more modest. This is the case with many routers in this category, and the Asus RT-AX1800S is quite competitive in terms of performance. You will get all the essential WiFi features like MU-

MIMO, OFDM, and 1024-QAM.

The Asus RT-AX1800S also offers security software and subscription-free parental controls, unlike some other brands. AiMesh support will expand your coverage with additional supported routers, and the Asus app is easy to use and set up.

Advantage

1. Reasonable price (about \$70)
2. Competitive WiFi 6 performance and low latency
3. Free AiProtection security software
4. Easy setup

Defect

1. 160MHz channel is not supported
2. 2.4GHz speed needs to be better

3. TP-Link Archer AXE75

WiFi 6E is an extension of WiFi 6, providing access to the new 6GHz band, reducing latency and increasing reliability. TP-Link Archer AXE75 is one of the more affordable tri-band WiFi 6E routers to hit the market, giving you speeds of up to 5.4Gbps (total across 3 bands). You also get all the features of TP-Link, like mesh network support, HomeShield software, and a free VPN.



The Archer AXE75 is different from TP-Link's AX75 model, which lacks WiFi 6E support, so be careful when purchasing. The router supports speeds of 2.4Gbps on both 5GHz and 6GHz channels to deliver outstanding performance. Even a 1Gbps fiber connection can't take full advantage of these speeds, but the additional wireless throughput and third 6GHz band certainly help beat congestion in apartments with multiple WiFi connections near each other.

Although the Archer AXE75 lacks some features, getting stable and reliable WiFi 6E performance at a reasonable price are pluses to consider.

Advantage

1. Impressive WiFi 6E throughput
2. Full 160 MHz speeds on both 5GHz and 6GHz channels
3. The value is great
4. HomeShield security, OneMesh support, and free VPN

Defect

1. No 2.5Gbps Ethernet
2. Some HomeShield features require a subscription

4. Netgear Nighthawk RAXE300

Netgear's Nighthawk router line always impresses with its distinctive design and top features. The Nighthawk RAXE300 adds WiFi 6E support to its premium, eye-catching design, along with speeds of up to 7.8Gbps across its three bands. This router can cover up to 2500 square meters, which is usually the best you can get without a mesh WiFi system.



The router is rated for speeds of 4.8Gbps, 2.4Gbps, and 600Mbps on the 5GHz, 6GHz, and 2.4GHz bands respectively. You can use the 2.5Gbps and 1Gbps WAN ports to connect to your favorite devices over Ethernet, and enable port pooling on any 2 of the 4 Gigabit LAN ports, achieving combined speeds of 2Gbps. A quad-core processor, NAND flash, and DDR4 DRAM support the router's powerful WiFi 6 technology.

You also get QoS support to prioritize traffic to your gaming PC, laptop or console. Besides, the Nighthawk app is quite easy to use.

Advantage

1. Supports total speed of 7.8Gbps
2. The range is wide enough for a large apartment
3. Unique and outstanding design
4. Easy to install and use
5. 2.5GbE as well as Gigabit WAN
6. USB 3.0 Type-C for storage connectivity

Defect

1. Expensive
2. Parental control features require registration

5. ASUS ROG Rapture GT-AX6000

While any good quality router can be used for gaming, if you are looking for a router specifically designed to maximize your gaming experience then look no further than the Asus ROG Rapture GT- AX6000. This dual-band AX6000 router features dual 2.5GbE ports (a rarity even among gaming routers), outstanding processing power, optimized performance for gaming, as well as anti-malware tools and Free parental controls.



When gaming, your focus is most likely on the preferred bandwidth for your PC or gaming laptop. ROG Rapture GT-AX6000 can do this perfectly thanks to its 2.5Gbps WAN port and another 2.5Gbps LAN port to connect directly to the gaming device of your choice. Its bandwidth optimization technology always lets you enjoy the best bandwidth, regardless of other devices in your home. Specifically, you get speeds of 4,804Mbps and 1,148 Mbps on the 5GHz and 2.4GHz bands, respectively.

ROG Rapture GT-AX6000 integrates all the great features of WiFi 6, such as OFDMA, MU-MIMO, 1024-QAM, 160 MHz channel and Beamforming. It also uses TWT (Target Wake Time) to reduce power consumption. If you regularly stream PC games to your TV, this gaming router will take your experience to the next level.

Advantage

1. Great performance for gaming
2. Dual 2.5Gbps Ethernet ports
3. Great value compared to the competition (usually priced at \$260)
4. The application is intuitive and has an attractive user interface
5. Free security software and parental controls

Defect

1. No WiFi 6E

6. Asus ZenWifi XT9

If you're trying to get the best WiFi connection for a large home and have upgraded to multi-gigabit Internet, the Asus ZenWifi home. This dual node system is capable of covering over 5700 square meters and supports speeds of up to 7.8Gbps across three bands.



The ZenWifi XT9 may not be the cheapest mesh system you can find, but it is one of the best. Compared to many competitors, the throughput you get here is among the fastest: 4.8Gbps on 5GHz-1, 2.4Gbps on 5GHz-2, and 574Mbps on 2.4GHz. 160Mhz channel support makes everything faster.

There's also 2.5Gbps Ethernet, LAN combo, and USB-A 3.2 for storage connectivity, so you'll have whatever you need. Lifetime free security and parental control software from Asus will further enhance your experience.

Advantage

1. Ultra-fast 7.8Gbps connection
2. Can easily cover most large homes
3. The application is very easy to use
4. AiMesh supports adding additional nodes
5. Free security software and parental controls

Defect

1. No WiFi 6E
2. More expensive than competitors

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