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AX1800 Dual-Band Wi-Fi 6 Router Model: MR70X

Highlights

- 1.8 Gbps Wi-Fi 6 Speed -1201 Mbps + 574 Mbps Dual-Band Speed[†]
- 4× More Capacity Connect more Wi-Fi devices with OFDMA and $\ensuremath{\mathsf{MU}}\xspace\text{-}\ensuremath{\mathsf{MIMO}}\xspace^{\ddagger}$
- Broader Wi-Fi Coverage Four powerful high-gain antennas with Beamforming
- Gigabit Wired Connections Full Gigabit Ports for PCs, IPTVs, and Game Consoles



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Applications





Ideal for average Internet users seeking fast downloads, seamless streaming audio, uninterrupted streaming video, and lag-free online gaming

Features



Parental Controls Establish appropriate policies to protect children with responsible, safe internet access



Guest Network Provides a separate network for guests to ensure your security and privacy



Quality of Service Prioritizes devices you select to perform better



Smart Connect Intelligently chooses the best available band for each device



IPTV Supported Supports IGMP Proxy/Snooping, Bridge, and Tag VLAN to optimize IPTV streaming



IPv6 Supported Allows you to enjoy IPv6 services provided by your ISP and visit IPv6 websites

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// Immerse Your Home in Wi-Fi

Four powerful high-gain antennas armed with advanced wireless technology provide strong signals throughout your home. Beamforming detects your connected devices and concentrates wireless signal strength towards them, making your connections more stable.



Level Up Your Speeds with Wi-Fi 6

Equipped with next-gen Wi-Fi 6, both 5 GHz and 2.4 GHz are upgraded to the latest generation, supporting combined speeds of up to 1800 Mbps – 1201 Mbps on 5 GHz and 574 Mbps on 2.4 GHz. Game online, watch 4K videos, and crank up everything to the highest settings without lag.[†]



More Streams, More Devices, More Fun

With uplink/downlink MU-MIMO and OFDMA, MR70X transmits data to and from multiple devices at the same time, reaching up to 4× more capacity, greatly increasing your devices' transmission efficiency and the throughput of the whole network under the same conditions.[§]





Less Wi-Fi Interference

BSS Color marks the data frames from different APs which helps minimize the signal interference from your neighbors to improve transmission efficiency.[‡]



Eco-Friendly Power Saving

Target Wake Time reduces power consumption for your mobile and IoT devices during data transmissions to extend battery life.[‡]



Overall Security Protection

The latest security standard, WPA3, provides improved comprehensive Wi-Fi protection to defend your devices and privacy information against brute-force attacks.^(A)

Specifications

Hardware

Ports

1× Gigabit WAN Port + 3× Gigabit LAN Ports Button Reset/WPS Button Dimensions (W x D x H) 8.2 × 6.8 × 1.6 in (208.8 × 171.6 × 41.7 mm) Antennas

4× 5 dBi Fixed Omni-Directional Antennas



Connect to the internet

Wireless

Wireless

1201 Mbps (5 GHz) + 574 Mbps (2.4 GHz), compatible with 11ax/ac/a/b/g/n Wi-Fi standards

- OFDMA: Allows simultaneous data transmission to and from several devices sharing one band, satisfying high network capacity demands‡
- MU-MIMO: Transfers data to more devices simultaneously, improving overall network efficiency[‡]
- 1024-QAM: Packs more effective data at once to achieve a 1.25× speed increase over 802.11ac 256-QAM[‡]
- Long OFDM Symbol: Delivers 4× more data subcarriers to increase range, stability, and speed[‡]
- Target Wake Time (TWT): Reduces power consumption for your mobile and IoT devices during data transmissions[‡]
- BSS Color: Minimizes interference from neighboring signals to improve transmission efficiency[‡]

EIRP

2.4 GHz < 20 dBm (EIRP) 5 GHz < 23 dBm (EIRP) **Reception Sensitivity** 11g 6Mbps: -96dBm 11g 54Mbps: -78dBm 11n HT40 MCS7:-74dBm 11n HT20 MCS7:-77dBm 11a 6Mbps:-94dBm 11a 54Mbps:-76dBm 11ac VHT20 MCS8:-71dBm 11ac VHT40 MCS8:-68dBm 11ac VHT80 MCS8:-65dBm Wireless Function Enable/Disable Wireless Radio, WMM Security Features Guest Network Access

- Firewall Protection
- Wireless Security: WPA-PSK / WPA2-PSK
- / WPA3 wireless encryption
- VPN Support: OpenVPN, PPTP supported

Specifications

Software

WAN Type Dynamic IP/Static IP/PPPoE/L2TP/PPTP DHCP Server, DHCP Client List NAT Forwarding Port Forwarding, Port Triggering, UPnP, DMZ Management Access Control Local Management Remote Management Firewall Security SPI Firewall, IP and MAC Address Binding Guest Network 2.4 GHz Guest Network, 5 GHz Guest Network

Others

Package Contents

- AX1800 Wi-Fi 6 Router MR70X
- Power Adapter
- Quick Installation Guide
- RJ45 Ethernet Cable

Environment

- Operating Temperature: 0°C~40°C (32°F~104°F)
- Operating Humidity: 10%~90% Non-Condensing
- Storage Humidity: 5%~90% Non-Condensing

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[†]Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput, wireless coverage, and number of connected devices are not guaranteed and will vary as a result of network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.

[‡]Use of 802.11ax (Wi-Fi 6), and features including OFDMA, MU-MIMO, 1024-QAM, BSS Color, and Target Wake Time requires clients to also support the corresponding features. Actual power reduction by Target Wake Time may vary as a result of network conditions, client limitations, and environmental factors.

[§]The 802.11ax white paper defines standardized modifications to both the IEEE 802.11 physical layers (PHY) and the IEEE 802.11 Medium Access Control (MAC) layer as enabling at least one mode of operation capable of supporting improvement of at least four times the average throughput per station (measured at the MAC data service access point) in a dense deployment scenario.

^aUse of WPA3 requires clients to also support WPA3.

'This router may not support all the mandatory features as ratified in Draft 3.0 of IEEE 802.11AX specifications.

**Further software upgrades for feature availability may be required.