



# AC1900 Wireless Dual Band Gigabit Router

Model: MR50G

## // Highlights

- Fast Wi-Fi – Simultaneous 600Mbps 2.4GHz and 1300Mbps 5GHz connection for 1.9Gbps of total available bandwidth
- Maximum Range – Six high gain antennas ensure widespread Wi-Fi coverage and a stable connection
- Easy Installation – Intuitive webpage guides you through the setup process in minutes
- Gigabit Ports – One Gigabit WAN port and two Gigabit LAN ports provide up to 10× faster speeds than standard Ethernet connections



High-Gain Antennas  
with Beamforming



1300 Mbps + 600 Mbps  
Dual-Band Wi-Fi



MU-MIMO Technology

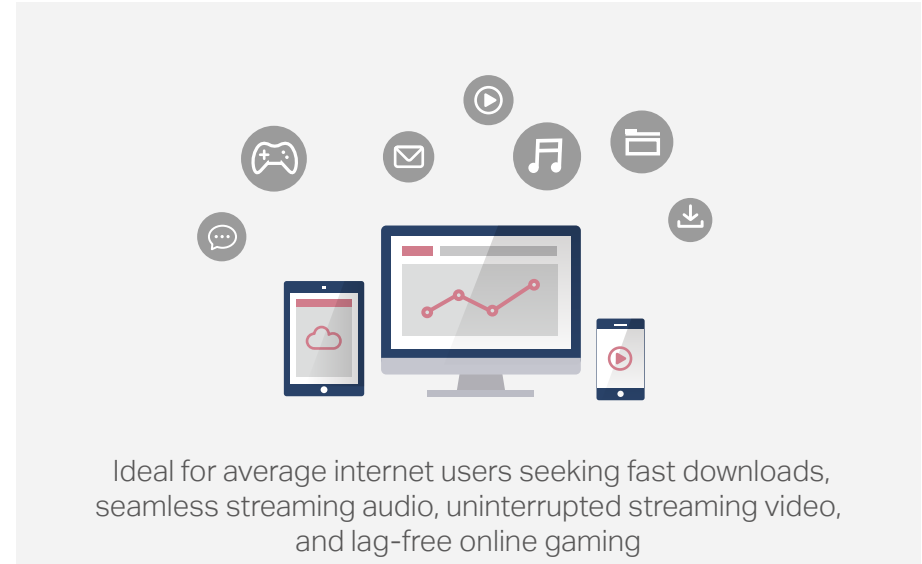


IPTV and IPv6 Supported

## // Applications



Ideal for large homes with multiple rooms and multiple users



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

## // Features



### Speed

Fast Wireless Speed – Combined wireless speeds of up to 600 Mbps (over 2.4GHz) and 1300 Mbps (over 5GHz)



### Range

Six Omni-Directional Antennas – High gain antennas provide maximum wireless coverage and boost wireless performance



### Easy Setup

Quick 3-Step Installation – Intuitive webpage supports quick, hassle free installation



### Security

Guest Network – Creates two separate networks for you and your guests to ensure safety  
Parental Controls – Parents can establish appropriate access policies for children devices

## // Full Gigabit Ports for Powerful Connections

The MR50G is a powerful hub to support a robust and extremely fast wired network. One Gigabit WAN port and two Gigabit LAN ports provide up to 10× faster speeds than standard Ethernet connections, helping your devices reach peak performance for smooth HD streaming and gaming.



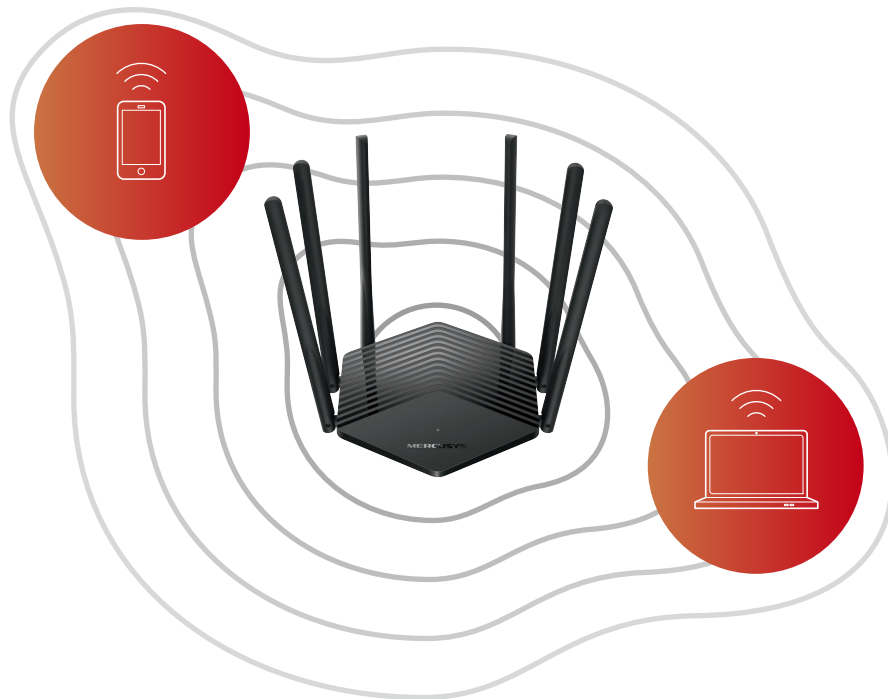
## // 1900Mbps Wi-Fi for Lag-free Work and Entertainment

The MR50G connects devices on both 2.4GHz and 5GHz bands simultaneously, offering a superior lag-free experience for work and play. Combining 600Mbps 2.4GHz (perfect for surfing and emailing) and 1300Mbps 5GHz (ideal for HD streaming and gaming), you have the flexibility to allocate your devices to dedicated networks to do more at the same time.

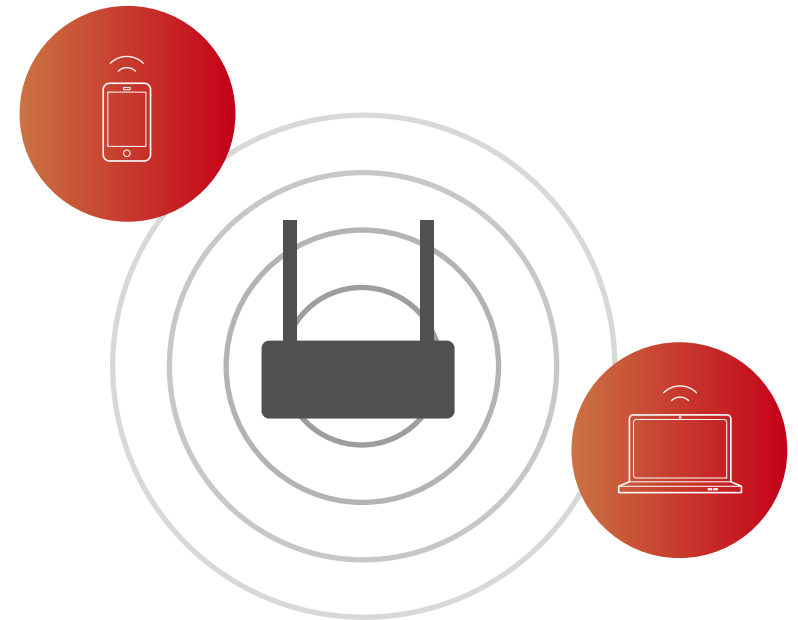


## // Far-Reaching Coverage

Six powerful high-gain external antennas armed with state-of-the-art technology provide powerful signals throughout your home. Beamforming detects your connected devices and concentrates wireless signal strength towards them, making your connections more stable.



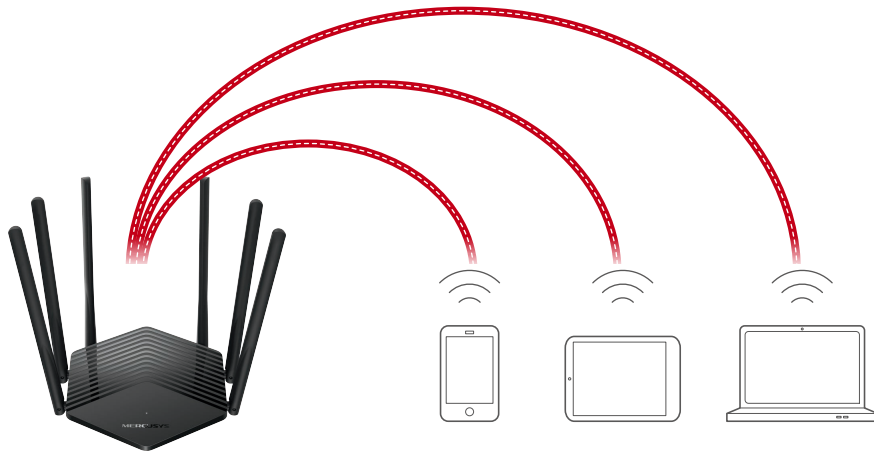
MR50G



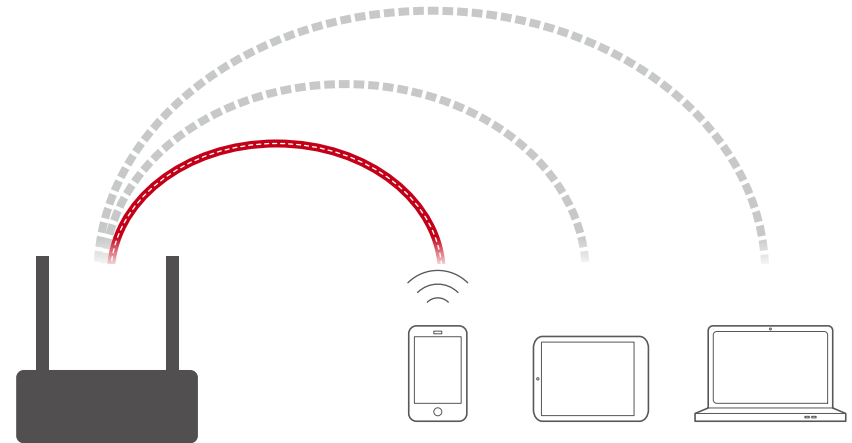
Regular Router

## // MU-MIMO Technology

With MU-MIMO, MR50G communicates with multiple devices at the same time to allow connected devices to achieve faster speeds than standard AC routers, increasing overall network throughput.



MR50G with MU-MIMO



Regular Router without MU-MIMO

## // Specifications

### Physical Specifications

#### Ports

1 Gigabit WAN Port  
2 Gigabit LAN Ports

#### Button

WPS/Reset Button

#### External Power Supply

12V/1A

#### Dimensions (W x D x H)

175.6 x 157.2 x 45 mm

#### Antennas

6 Fixed Omni-Directional Antennas

#### Package Contents

- AC1900 Wireless Dual Band Gigabit Router (MR50G)
- Power Adapter
- Ethernet Cable
- Quick Installation Guide

### Wireless Specifications

#### Wireless Standards

IEEE 802.11a/n/ac 5GHz, IEEE 802.11b/g/n 2.4GHz

#### Frequency

2.4 - 2.5GHz, 5.15 - 5.25GHz

#### Signal Rate

600Mbps at 2.4GHz, 1300Mbps at 5GHz

#### Transmit Power

CE:<20dBm (2.4GHz), <23dBm (5.15 - 5.25GHz)  
FCC:<30dBm(2.4 GHz & 5GHz)

#### Reception Sensitivity

5GHz:

11a 6Mbps: -98dBm, 11a 54M: -78dBm  
11ac VHT20\_MCS0: -98dBm, 11ac VHT20\_MCS8: -72dBm  
11ac VHT40\_MCS0: -92dBm, 11ac VHT40\_MCS9: -68dBm  
11ac VHT80\_MCS0: -89dBm, 11ac VHT80\_MCS9: -64dBm

2.4GHz:

11g 6Mbps: -97dBm, 11a 54M: -77dBm  
11n VHT20\_MCS0: -97dBm, 11n VHT20\_MCS8: -72dBm  
11n VHT40\_MCS0: -92dBm, 11n VHT40\_MCS9: -67dBm

#### Wireless Function

Enable/Disable Wireless Radio, Wireless Statistics

#### Wireless Security

WEP, WPA / WPA2-Personal, WPA2 / WPA3-Personal

### Operation Specifications

#### WAN Type

Dynamic IP/Static IP/PPPoE/PPTP/L2TP

#### DHCP

Server

#### Port Forwarding

Virtual Server, UPnP, DMZ

#### Management

Access Control  
Local Management  
Remote Management

#### Firewall Security

IP and MAC Address Binding

#### Protocols

IPv4, IPv6

#### Guest Network

2.4GHz Guest Network, 5GHz Guest Network

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\* Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed and will vary as a result of 1) environmental factors, including building materials, physical objects, and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead, and 3) client limitations, including rated performance, location, connection, quality, and client condition.