



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

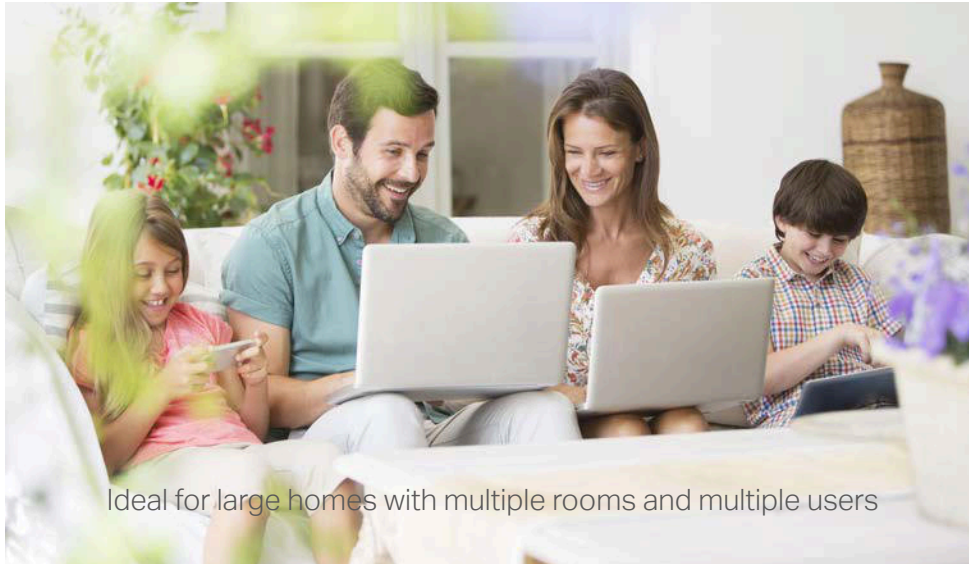


MU-MIMO Technology

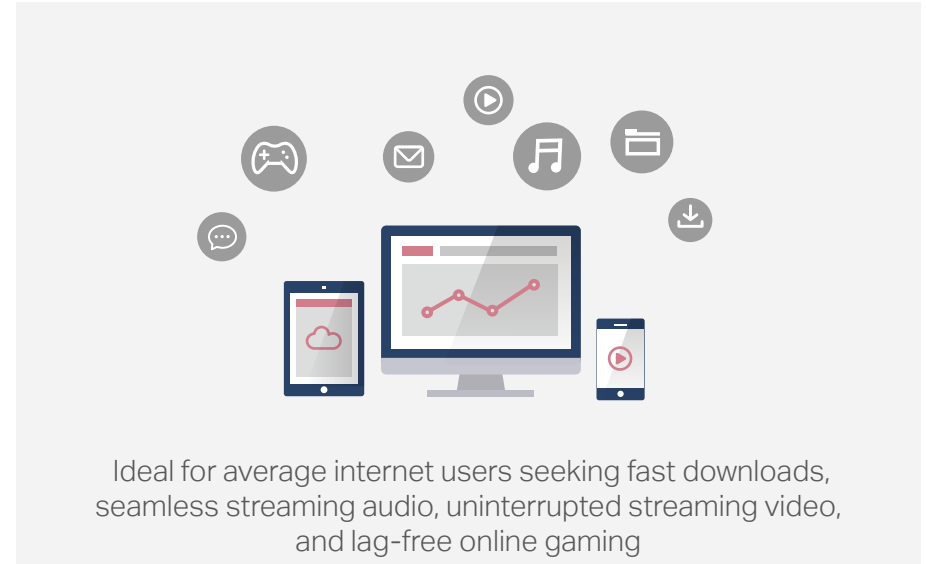


IPTV and IPv6 Supported

// 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.

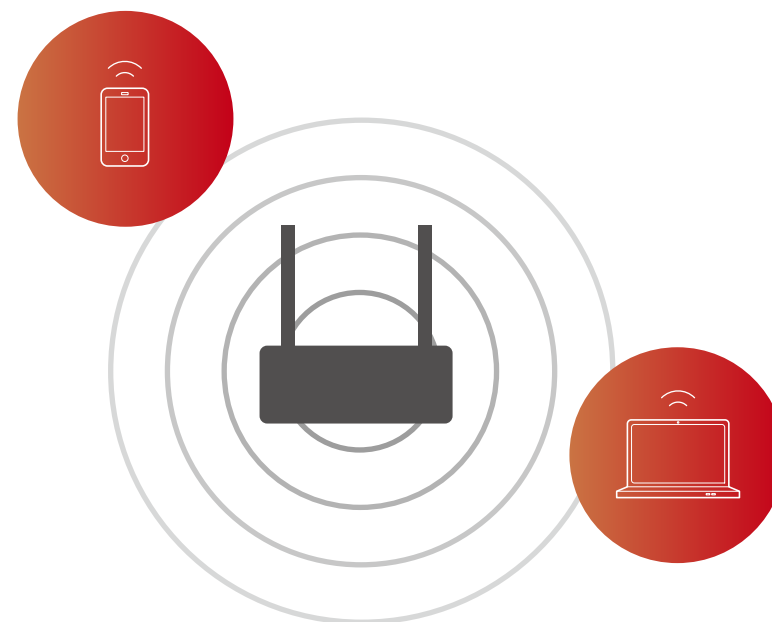


// Far-Reaching Coverage

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.



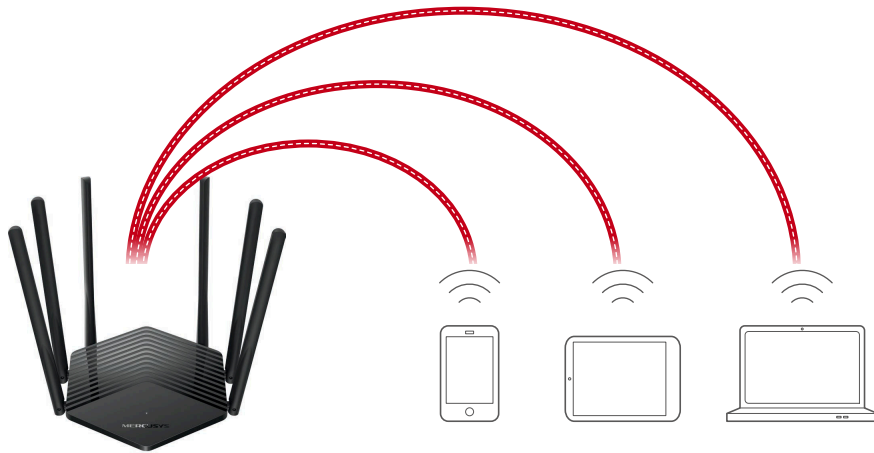
MR50G



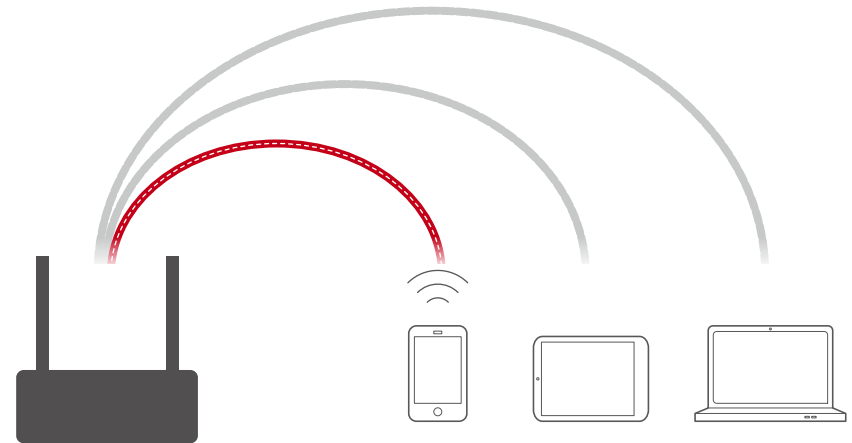
Regular Router

// 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.