ISP Preset

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

5dBi High-Gain Antennas with Beamforming

1300 Mbps + 600 Mbps Dual-Band Wi-Fi

3×3 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

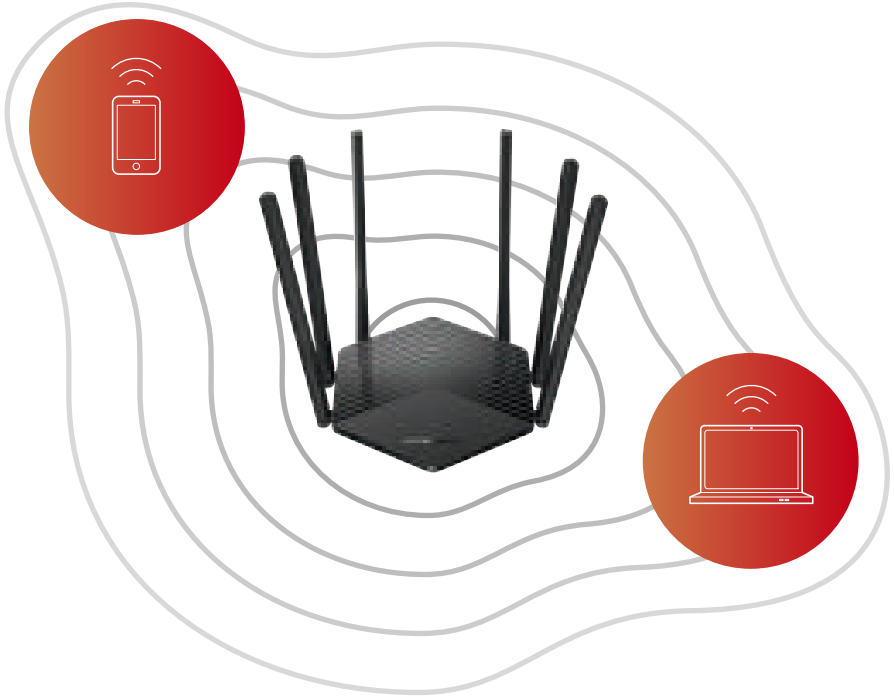
The MR50G is a powerful hub to support a robust and extremely fast wired network. One Gigabit WAN port and two Gigabit LAN ports provide up to 10× faster speeds than standard Ethernet connections, helping your devices reach peak performance for smooth HD streaming and gaming.

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

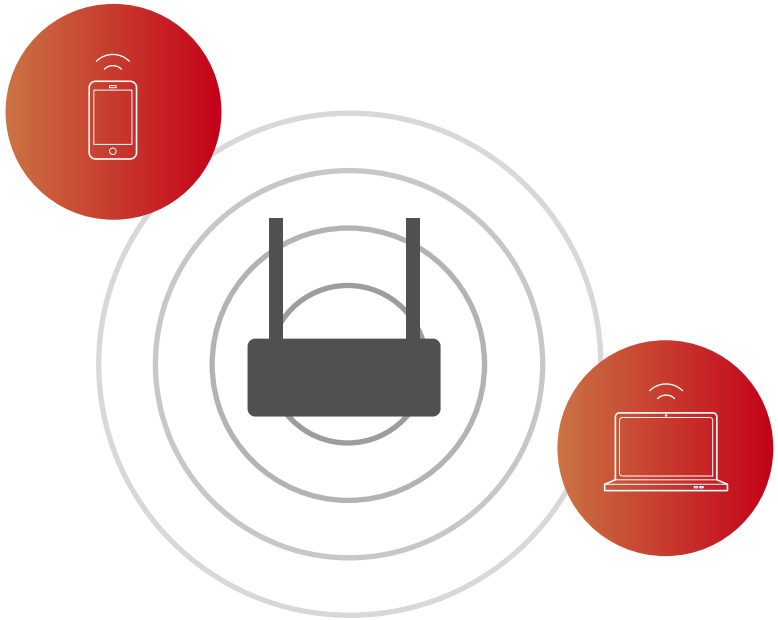
The MR50G connects devices on both 2.4GHz and 5GHz bands simultaneously, offering a superior lag-free experience for work and play. Combining 600Mbps 2.4GHz (perfect for surfing and emailing) and 1300Mbps 5GHz (ideal for HD streaming and gaming), you have the flexibility to allocate your devices to dedicated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



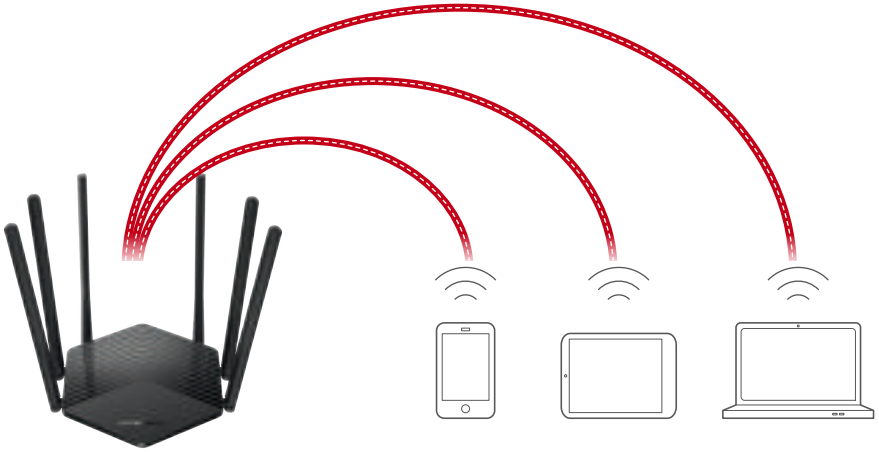
MR50G



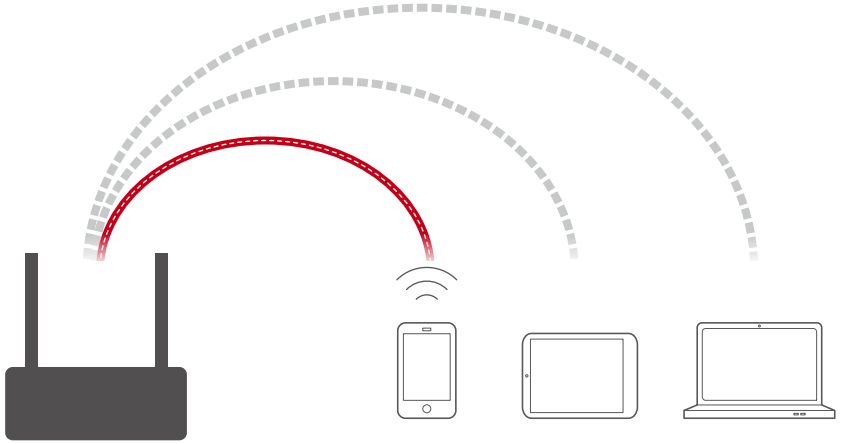
Regular Router

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

Specifications are subject to change without notice. MERCUSYS is a registered trademark of MERCUSYS TECHNOLOGIES CO., LTD. Other brands and product names are trademarks or registered trademarks of their respective holders. Copyright © 2020 MERCUSYS TECHNOLOGIES CO., LTD. All rights reserved.
* 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.