

MERCUSYS

Wi-Fi 6

5G

AX3000 Wireless Dual Band Router

Model: MB525-5G



2402 Mbps + 574 Mbps
Dual Band Wi-Fi†

Full Gigabit
Ports*

Connect up to 256
Devices

EasyMesh-Compatible
Seamless Wi-Fi★

Easy App
Control

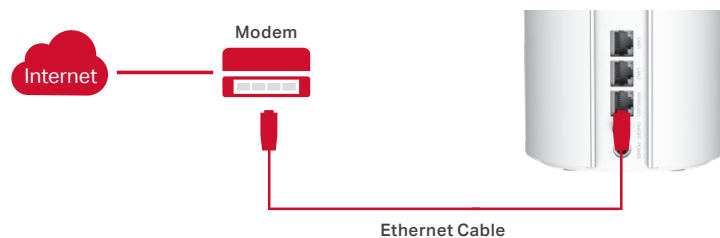
Superior 5G Speed and Wi-Fi 6 for Reliable Connectivity†

Working as a 5G router, MB525-5G leverages 5G technology to deliver download speeds of up to 6.47 Gbps and 1.25 Gbps upload.[§] It can also share a dual band Wi-Fi network with a max speed of 2402 Mbps on 5 GHz and 574 Mbps on 2.4 GHz for Ultra HD movies, immersive gaming, and more.[†]



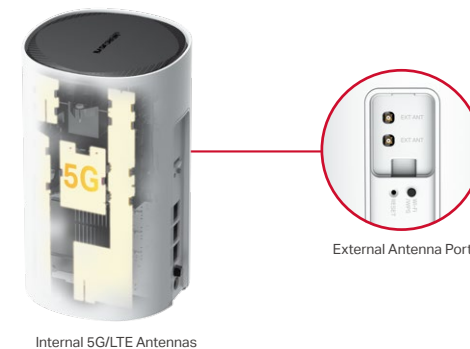
Available WAN Connection Backup

The gigabit WAN/LAN port allows the MB525-5G to work as a traditional wireless router, compatible with cable, fiber, and DSL modems. When set as a wireless router, its 5G/4G connection serves as a backup, providing a sustained and reliable internet connection.*



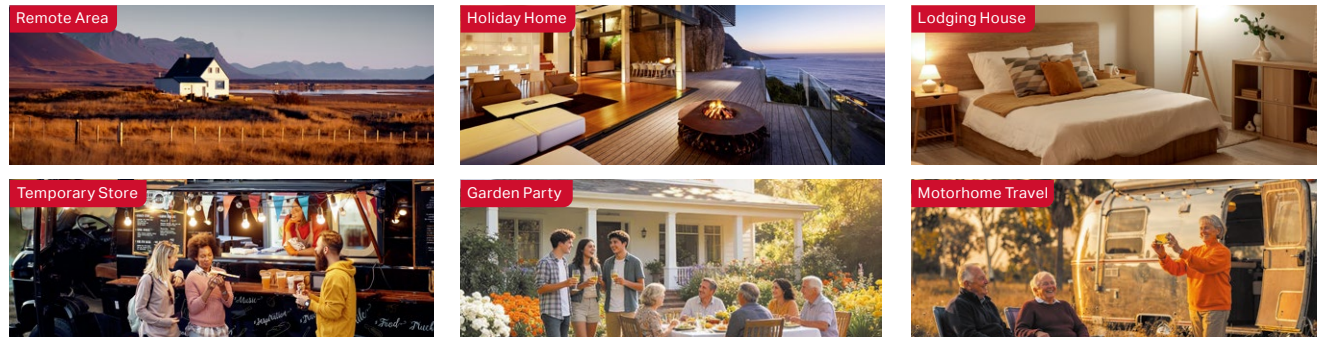
Designed for Maximum Network Coverage

Advanced internal 5G/LTE antennas deliver fast, stable connections for all your devices, while external ports support additional antennas for extended range.



Unmatched Convenience and Versatility

Ideal for homes without fiber, this device offers fast, stable Wi-Fi with no rewiring required—just insert a SIM card and power on. Perfect for both home and remote work setups.



Share Wi-Fi with Your Friends

A remarkable number of wireless devices are compatible with MB525-5G without issue. Connect up to 256 devices simultaneously, including tablets, laptops, and mobile phones.



// Specifications

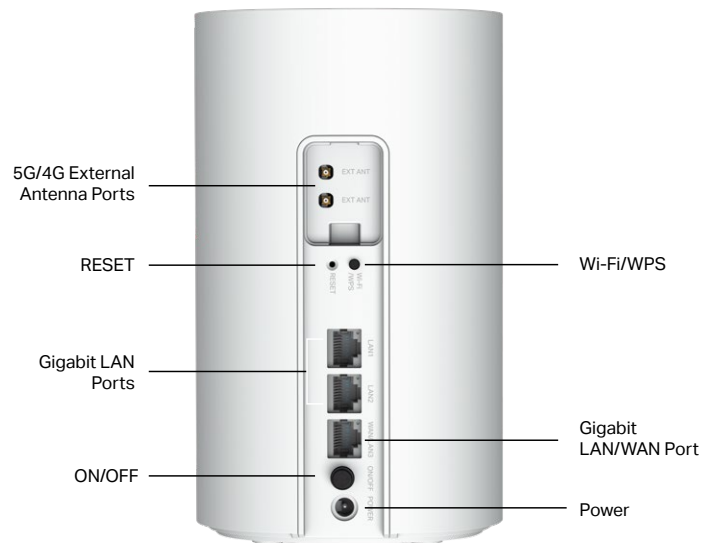
Hardware

Ports: 1× Nano SIM Card Slot + 1× Gigabit WAN/LAN Port + 2× Gigabit LAN Ports + 2× TS-9 Antenna Ports

Buttons: 1×WPS Button + 1×Reset Button + 1×ON/OFF Button

Dimensions: 113 x 113 x 192.5 mm (4.45 x 4.45 x 7.58 inches)

External Power Supply: 12V/2A



Software

Operating Modes: 5G/4G/3G Router, Wireless Router

WAN Type: Dynamic IP/Static IP/PPPoE/PPTP/L2TP/Bridge

DHCP: Server, DHCP Client List, Address Reservation

Port Forwarding: ALG, Virtual Server, Port Triggering, UPnP, DMZ

Dynamic DNS: DynDns, NO-IP

Security: IPv4 SPI Firewall, Service Filtering, Access Control, IPv6 Firewall, IP and MAC Address Binding

Protocols: IPv4, IPv6

Management: Local Management, Remote Management

Administration: Upgrade Firmware, Factory Default, System Log, Diagnostic Tools

Guest Network: 2.4 GHz Guest Network, 5 GHz Guest Network

Others

Certification: CE, RCM

Requirements:

Internet Explorer 11+, Firefox 12.0+, Chrome 20.0+, Safari 4.0+, or other JavaScript-enabled browser

Nano SIM Card

Environment:

Operating Temperature: 0°C~40°C (32°F~104°F)

Package Contents:

5G AX3000 Wireless Dual Band Router (MB525-5G)

Power Adapter

RJ45 Ethernet Cable

Quick Installation Guide

// Specifications

Wireless

Wireless: 2402 Mbps (5 GHz) + 574 Mbps (2.4 GHz), compatible with IEEE 802.11ax/ac/a/b/g/n†

5G: Download Speed 6.47 Gbps + Upload Speed 1.25 Gbps§

LTE Cat20: Download Speed 2 Gbps + Upload Speed 211 Mbps§

Network Type (EU):

Compatible with most of mobile operators and supports 5G/4G/3G

NR:

N1/N2/N3/N5/N7/N8/N20/N26/N28/N38/N40/N41/N66/N67/N71/N75/N76/N77/N78

(2100/1900/1800/850/2600/900/800/850/700/2600/2300/2500/2100/700/600/1500/1500/3500/3500 MHz)

FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B20/B26/B28/B32/B66/B67/B71

(2100/1900/1800/1900/850/2600/900/800/850/700/1500/2100/700/600 MHz)

TDD-LTE: B38/B40/B41/B42/B43/B46/B48

(2600/2300/2500/3500/3700/5500/3600 MHz)

WCDMA: W1/W2/W3/W5/W8 (2100/1900/1800/850/900 MHz)

Frequency: 2.4 GHz, 5 GHz

EIRP (CE):

2.4 GHz < 20 dBm

5 GHz band1, 2 < 23 dBm

5 GHz band3 < 30 dBm

Reception Sensitivity

5 GHz:

11ax HE20: -64 dBm

11ax HE40: -61 dBm

11ax HE80: -59 dBm

11ax HE160: -56 dBm

11ac VHT20: -70 dBm

11ac VHT40: -67 dBm

11ac VHT80: -64 dBm

2.4 GHz:

11ax HE20: -65 dBm

11ax HE40: -62 dBm

11ac VHT20: -77 dBm

11ac VHT40: -74 dBm

Wireless Function: Smart connect, WPS, Wireless Schedule, Wireless Clients Statistics, EasyMesh, Multi-SSID

Wireless Security: WPA-PSK / WPA2-PSK / WPA3-SAE/WPA2-Enterprise



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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, and quantity 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 Wi-Fi 6 (802.11ax) and its features including OFDMA, MU-MIMO, and 1024-QAM requires clients to also support the corresponding features.

§Maximum 5G/4G download speeds depend on external factors such as the local 5G/4G network coverage, data plan, real-time network capacity, client limitations, and environmental factors.

Actual supported frequency bands may vary slightly in different regions due to certification.

☆EasyMesh-compatible products can network with other devices that use EasyMesh. Failed connections may be due to firmware conflicts of different vendors. The EasyMesh-compatible function is still being developed on some models and will be supported in subsequent software updates.

*Actual network speed may be limited by the rate of the product's Ethernet WAN or LAN port, the rate supported by the network cable, internet service provider factors, and other environmental conditions.