



AC750 Wireless Dual-Band Router

300 Mbps Wireless N (2.4 GHz) + 433 Mbps Wireless AC (5 GHz), QoS, 4-Port LAN Switch

Part No.: [525541](#)

Wireless AC750 Dual-Band Router – The ultimate in wireless performance. Thanks to the latest in wireless networking technology — Wireless AC — the Manhattan AC750 Wireless Dual-Band Router offers you a totally unparalleled level of speed, coverage, reliability and value. Designed to be easy to set up and maintain, the Wireless AC750 Dual-Band Router delivers blazing-fast data speeds of up to 300 Mbps on the 2.4 GHz band and 433 Mbps* on the 5 GHz band**, as well as enough range to cover an entire single-family home or medium-sized office.

Manhattan ExpressWay™ for Easy Installation

The Manhattan ExpressWay™ Windows utility guides you through the installation and within minutes you are up and running. The installation does not require any knowledge about networking in general or IP addresses in particular, making the setup procedure a breeze. And if you do not run Windows, you can easily connect to the Manhattan Web Configuration Page and launch the integrated wizard from there.

Congestion? Not Here.

The main benefit of a dual-band AC router is the ability to shift traffic from the congested 2.4 GHz band to the relatively uncluttered 5 GHz space. So, you can use the 2.4 GHz band for your everyday tasks, such as surfing the Internet, social media or e-mail, while the 5 GHz AC band can be used for heavy-duty traffic like HD video streaming, VoIP calling, online gaming and downloading or transferring large files.

Backward Compatible

AC is the next generation of wireless technology, providing faster speed and improved coverage. But, if none of the devices you own support Wireless AC, never fear — the AC750 Dual-Band Router is backward compatible with older 802.11b/g/n/a devices, so you can connect virtually any of your wireless devices to it.

* Actual data throughput will vary based on environmental factors and network traffic

** Not all built-in laptop or desktop wireless network cards support dual-band networking. To enjoy full dual-band connectivity, please use the Manhattan Mini AC600 Dual-Band Wireless Adapter (Model 525602).

Features:

- Create a wireless dual-band network in your home and connect your devices to the Internet in minutes
- Easy setup with the Manhattan ExpressWay™ utility

- Ideal for heavy-traffic networks, HD/3D video streaming, online gaming, video chat and more
- The latest in wireless technology transfer delivers up to 433 Mbps (5 GHz) and 300 Mbps (2.4 GHz) speeds
- Simultaneous dual-band operation (2.4 GHz and 5 GHz) provides twice the bandwidth
- 4-port Fast Ethernet switch expands your network in an instant
- Supports WMM function to meet the multimedia data bandwidth requirement
- Secure wireless connection with the push of a button thanks to Wi-Fi Protected Setup (WPS)
- Supports WEP and WPA/WPA2 (TKIP and AES) data encryption
- QoS (Quality of Service) bandwidth management
- Use Manhattan Wireless AC WLAN adapters and cards for best compatibility and performance
- Three-Year Warranty

Specifications:

Standards

- IEEE 802.1d (Spanning Tree Protocol)
- IEEE 802.11a (54 Mbps Wireless LAN)
- IEEE 802.11ac (433 Mbps Wireless LAN)
- IEEE 802.11b (11 Mbps Wireless LAN)
- IEEE 802.11g (54 Mbps Wireless LAN)
- IEEE 802.11n (300 Mbps Wireless LAN)
- IEEE 802.3 (10Base-T Ethernet)
- IEEE 802.3u (100Base-TX Fast Ethernet)

General

- LAN ports: 4 RJ45 10/100 Mbps data ports
- LAN ports with Auto MDI/MDI-X
- WAN port: 10/100 Mbps RJ45 connector
- LAN to WAN throughput: 450 Mbps
- PPPoE throughput: 400 Mbps
- Flash: 4 MB
- Memory: 32 MB DDR2 RAM
- Certifications: FCC Class B, CE, RoHS

Router

- Supported WAN connection types:
 - Dynamic IP (DHCP for cable service)
 - Static IP
 - PPPoE (for DSL)
 - PPTP
 - BigPond (Australia)
- Protocols:
 - CSMA/CA
 - CSMA/CD

- TCP/IP
- UDP
- ICMP
- PPPoE
- NTP
- NAT (network address translation)
- DHCP
- DNS
- NAT:
 - Virtual server
 - Port forwarding
 - Special applications (port trigger)
- Firewall:
 - Access control based on MAC address
 - URL filter
 - DMZ (demilitarized zone)
- Supports UPNP (Universal Plug and Play)
- Supports DHCP (client/server)
- Supports PPPoE (DSL), DHCP (cable) and static IP
- VPN passthrough: PPTP, IPSec, L2TP

Wireless 5.0 GHz

- Link speed: up to 433 Mbps
- Modulation technologies:
 - 802.11a/n/ac: Orthogonal Frequency Division Multiplexing (OFDM): BPSK, QPSK, 16QAM, 64QAM, 256QAM
- Channels:
 - USA & Canada: 36, 40, 44, 48, 149, 153, 157, 161, 165
 - Europe: 36, 40, 44, 48
- Output power:
 - 11a (54 Mbps): 13 dBm (± 1.5 dBm)
 - 11n (20 MHz, MCS7): 13 dBm (± 1.5 dBm)
 - 11n (40 MHz, MCS7): 13 dBm (± 1.5 dBm)
 - 11ac (80 MHz, MCS9): 12 dBm (± 1.5 dBm)
- Receiver sensitivity:
 - 11a (54 Mbps): ?69 dBm (± 2 dBm)
 - 11n (20 MHz, MCS7): ?68 dBm (± 2 dBm)
 - 11n (40 MHz, MCS7): ?64 dBm (± 2 dBm)
 - 11ac (80 MHz, MCS9): -55 dBm (± 2 dBm)

Wireless 2.4 GHz

- Link speed: up to 300 Mbps
- 2T2R MIMO
- Modulation technologies:
 - 802.11b: Direct Sequence Spread Spectrum (DSSS): DBPSK, DQPSK, CCK
 - 802.11g: Orthogonal Frequency Division Multiplexing (OFDM): BPSK, QPSK, 16QAM, 64QAM
 - 802.11n: Orthogonal Frequency Division Multiplexing (OFDM): BPSK, QPSK, 16QAM,

64QAM

- Channels:
 - USA & Canada: 11 channels
 - Europe: 13 channels
- Output power:
 - 11b (11 Mbps): 13 dBm (± 1.5 dBm)
 - 11g (54 Mbps): 13 dBm (± 1.5 dBm)
 - 11n (20 MHz, MCS7): 10 (± 1.5 dBm)
 - 11n (40 MHz, MCS7): 9 (± 1.5 dBm)
- Receiver sensitivity:
 - 11b (11 Mbps): -83 dBm (± 2 dBm)
 - 11g (54 Mbps): -69 dBm (± 2 dBm)
 - 11n (20 MHz): -67 dBm (± 2 dBm)
 - 11n (40 MHz): -64 dBm (± 2 dBm)

Wireless 2.4 + 5 GHz

- Wireless security:
 - WEP encryption (64/128 bit)
 - WPA TKIP
 - WPA2 AES
 - WPA2 mixed
 - WPA RADIUS
 - Client access control through media access control (MAC) filter
- Antennas: 2 fixed-dipole antennas

LEDs

- Power
- 2.4 GHz WLAN
- 5 GHz WLAN
- WAN Link/Act
- LAN 1-4 Link/Act

Power

- External power adapter: 12 V DC, 0.5 A

Environmental

- Dimensions: 196 (W) x 120 (L) x 26 (H) mm (7.7 x 4.7 x 1.0 in.)
- Weight: 0.62 kg (1.37 lbs.)
- Operating temperature: 0 – 40°C (32 – 104°F)
- Operating humidity: 10 – 90% RH, non-condensing

Package Contents

- AC750 Wireless Dual-Band Router
- Quick installation guide
- User manual on installation CD
- Power adapter
- Ethernet Cat5 RJ45 cable: 1.0 m (3 ft.)

