



AC1200 Wireless Dual-Band Router

300 Mbps Wireless N (2.4 GHz) + 867 Mbps Wireless AC (5 GHz), 2T2R MIMO, QoS, 4-Port Gigabit LAN Switch

Part No.: **525480**

Wireless AC1200 Dual-Band Router – The ultimate in wireless performance. Thanks to the latest in wireless networking technology — Wireless AC — the Manhattan AC1200 Wireless Dual-Band Router offers you a totally unparalleled level of speed, coverage and reliability. Designed to be easy to set up and maintain, the Wireless AC1200 Dual-Band Router delivers lightning-fast data speeds of up to 300 Mbps on the 2.4 GHz band and 900Mbps* on the 5 GHz band**, as well as range that can cover an entire multistory home or 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. And, because the Manhattan AC1200 Dual-Band Router is equipped with 2T2R MIMO antenna technology, you can have multiple devices on both the 2.4 and 5 GHz networks simultaneously.

Backward Compatible

AC is 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 AC1200 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 Range+ AC1200 Dual-Band Wireless Adapter (Model 525572).

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 streaming HD-quality video, playing online games, downloading large files and making VoIP calls
- The latest in wireless technology transfer delivers up to 867 Mbps (5 GHz) and 300 Mbps (2.4 GHz) speeds
- Simultaneous dual-band operation (2.4 GHz and 5 GHz) provides twice the bandwidth
- Four Gigabit Ethernet ports for super-fast wired connections
- Supports WMM function to meet the multi-media 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 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 (867 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)
- IEEE 802.3ab (Gigabit Ethernet)

General

- LAN ports: 4 RJ45 10/100/1000 Mbps data ports
- LAN ports with Auto MDI/MDI-X
- WAN port: 10/100/1000 Mbps RJ45 connector
- LAN to WAN throughput: 875 Mbps
- PPPoE throughput: 867 Mbps
- Flash: 4 MB
- Memory: 64 MB DDR2 RAM
- Certifications: FCC Class B, FCC Class C, FCC Class E, 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 pass-through: PPTP, IPSec, L2TP

Wireless 5.0 GHz

- Link Speed: up to 867 Mbps
- Modulation technologies:
 - 802.11a/n: Orthogonal Frequency Division Multiplexing (OFDM): BPSK, QPSK, 16QAM, 64QAM
- Channels:
 - USA & Canada: 36, 40, 44, 48, 149, 153, 157, 161, 165
 - Europe: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140
- Output power:
 - 11a (54 Mbps): 12 dBm (± 1.5 dBm)
 - 11n (20 MHz, MCS7): 12 dBm (± 1.5 dBm)
 - 11n (40 MHz, MCS7): 12 dBm (± 1.5 dBm)
 - 11ac (80 MHz, MCS9): 10 dBm (± 1.5 dBm)
- Receiver sensitivity:
 - 11a (54 Mbps): -70 dBm (± 2 dBm)
 - 11n (20 MHz, MCS7): -68 dBm (± 2 dBm)
 - 11n (40 MHz, MCS7): -64 dBm (± 2 dBm)
 - 11n (80 MHz, MCS9): -54 dBm (± 2 dBm)

Wireless 2.4 GHz

- Link Speed: up to 300 Mbps
- 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): 16 dBm (± 1.5 dBm)
 - 11g (54 Mbps): 14 dBm (± 1.5 dBm)
 - 11n (20 MHz, MCS7): 13 (± 1.5 dBm)
 - 11n (40 MHz, MCS7): 13 (± 1.5 dBm)
- Receiver sensitivity:
 - 11b (11 Mbps): -84 dBm (± 2 dBm)
 - 11g (54 Mbps): -70 dBm (± 2 dBm)
 - 11n (20 MHz): -65 dBm (± 2 dBm)
 - 11n (40 MHz): -63 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: Two fixed-dipole antennas with 3 dBi gain each

LEDs

- Power
- WLAN Link/Act
- WAN Link/Act
- WAN 10/100 Mbps
- LAN 1-4 Link/Act
- LAN 1-4 10/100/1000 Mbps

Power

- External power adapter: 5 V DC, 2 A

Environmental

- Dimensions: 196 (W) x 120 (L) x 26 (H) mm (7.7 x 4.7 x 1.0 in.)
- Weight: 1.0 kg (2.2 lbs.)
- Operating temperature: 0 – 40°C (32 – 104°F)
- Operating humidity: 10 – 90% RH, non-condensing

Package Contents

- AC1200 Wireless Dual-Band Router

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

