Wireless 450N Dual-Band Gigabit Router

450 Mbps Wireless 802.11a/b/g/n, 2.4 + 5 GHz, 3T3R MIMO, QoS, 4-Port Gigabit LAN Switch
Part No.: 524988

Wireless 450N Dual-Band Router - The Ultimate in Wireless Performance
The Intellinet Network Solutions Wireless 450N Dual-Band Gigabit Router, model 524988, is the latest in wireless networking technology. Wireless bandwidth never peaked higher and wireless signals never traveled farther thanks to cutting-edge Wireless N dual-band technology.

Integrated Gigabit Ethernet Switch

Lightning-fast file transfers, high-definition (HD) video streaming and plenty of bandwidth for VoIP applications. Take advantage of the integrated Gigabit Ethernet LAN switch, which removes the bottleneck caused by regular 10/100 Mbps devices. Only with a Gigabit-enabled wireless router can you take full advantage of the additional performance provided by the new 450 Mbps Wireless 802.11n 3T3R standard.

Unsurpassed Wi-Fi Performance

Intellinet Network Solutions's advanced 3T3R architecture implements true three-stream 802.11n technology, enabling transmission rates of up to 450 Mbps, the highest performance on the market. This solution addresses concurrent delivery of data, voice and HD video throughout the home or office.

Congestion? Not Here.

Move your mission-critical wireless applications from the congested 2.4 GHz band into the 5 GHz space and provide the fastest wireless connection available today. 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 band is reserved for your high-end applications; e.g., HD video streaming and specialized applications. Since the Intellinet Network Solutions Wireless 450N Dual-Band Gigabit Router is equipped with two high-performance wireless sender/receiver units, you can run both the 2.4 and 5 GHz networks simultaneously.

Multiple Solutions in One Device

The Wireless N Gigabit Router serves multiple purposes — an access point for your wireless network providing both 2.4 GHz and 5 GHz wireless simultaneously, wireless bridge, wireless repeater, WDS repeater, a four-port Gigabit router for your hard-wired Ethernet devices, a firewall, access and content control — and it brings it all together to maximize your high-speed Internet access.

Features:

- Supports simultaneous dual-band 2.4 GHz and 5 GHz operation
- Dual-band operation provides twice the bandwidth and less interference
- Ideal for HD video streaming

- Up to 450 Mbps network link speed
- Supports advanced 3T3R MIMO technology, enhancing the throughput and coverage range significantly
- Four Gigabit Ethernet ports for super-fast wired connections
- Supports WMM function to meet the multi-media data bandwidth requirement
- Supports Wi-Fi Protected Setup (WPS)
- Supports WEP and WPA/WPA2 (TKIP and AES) data encryption
- Supported modes: Access Point, Station Infrastructure, Bridge Point-to-Point, Bridge Point-to-Multi-Point, WDS and Universal Repeater
- DHCP server assigns IP addresses for all LAN users
- DHCP Server supports static lease management
- Supports virtual server, port forwarding and DMZ (demilitarized zone)
- Supports DDNS (dynamic DNS)
- Supports UPNP (Universal Plug and Play)
- Integrated anti-DOS firewall
- QoS (Quality of Service) bandwidth management
- VPN Pass Through (PPTP, IPSec, L2TP)
- Complies with 5 GHz IEEE 802.11a/n standards and 2.4 GHz IEEE 802.11b/g/n standards
- Use INTELLINET NETWORK SOLUTIONS Wireless N WLAN adapters and cards for best compatibility and performance
- Easy Internet setup through WAN connection wizard
- Easy installation through Web-based user interface
- System Status
- Security Log
- Firmware Upgradeable
- Three-Year Warranty

Specifications:

Standards
• IEEE 802.1d (Spanning Tree Protocol)
• IEEE 802.11a (54 Mbps Wireless LAN)
• IEEE 802.11b (11 Mbps Wireless LAN)
• IEEE 802.11g (54 Mbps Wireless LAN)
• IEEE 802.11n (450 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: 275 Mbps
• PPPoE throughput: 163 Mbps
• 500 MHz MIPS CPU

- Flash: 8 MB
- Memory: 64 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 pass-through: PPTP, IPSec, L2TP

Wireless 5.0 GHz
- Chipset: Ralink RT3883
- Link Speed: up to 450 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:
- 11n (450 Mbps): 20 MHz: 14 dBm; 40 MHz: 14 dBm (±1.5 dBm)
- 11a (54 Mbps): 14 dBm (± 1.5 dBm)

- Receiver sensitivity:
- 11n (450 Mbps): 20 MHz: -66 dBm; 40 MHz: -64 dBm (±2 dBm)
- 11a (54 Mbps): -68 dBm (±2 dBm)

Wireless 2.4 GHz
- Chipset: Ralink RT3092
- 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:
- 11n (300 Mbps): 20 MHz: 17 dBm; 40 MHz: 16 dBm (±1.5 dBm)
- 11g (54 Mbps): 17 dBm (±1.5 dBm)
- 11b (11 Mbps): 18 dBm (±1.5 dBm)
- Receiver sensitivity:
- 11n (300 Mbps): 20 MHz: -66 dBm; 40 MHz: -64 dBm (±2 dBm)
- 11g (54 Mbps): -70 dBm (±2 dBm)
- 11b (11 Mbps): -84 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:
- 3 fixed-dipole antennas with 3 dBi gain each
- 2.4 GHz/300 Mbps: 2T2R MIMO mode (2 transmitter, 2 receiver)
- 5 GHz/450 Mbps: 3T3R MIMO mode (3 transmitter, 3 receiver)

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: 12 V DC, 1.25 A

• Power consumption: 10.5 Watts max.

Environmental
• Dimensions: 195 (W) x 127 (L) x 35 (H) mm (7.6 x 5.0 x 1.4 in.)
• Weight: 1.0 kg (2.2 lbs.)
• Operating temperature: 0 – 50°C (32 – 122°F)
• Operating humidity: 10 – 90% RH, non-condensing
• Storage temperature: -20 – 60°C (4 – 149°F)

Package Contents
• Wireless 450N Dual-Band Gigabit Router
• Quick installation guide
• User manual on installation CD
• Power adapter
• Ethernet Cat5 RJ45 cable: 1.0 m (3 ft.)

For more information on Intellinet products, consult your local dealer or visit www.intelllinet-network.com.
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