



## Wireless 300N ADSL2+ Modem Router

For ADSL (Annex B), 300 Mbps Wireless 802.11n, MIMO, QoS, with 4-Port 10/100 Mbps LAN Switch

Part No.: **524797**

The INTELLINET NETWORK SOLUTIONS Wireless 300N ADSL 2+ Modem Router provides you with Internet access that is faster than ever before!

The Wireless 300N ADSL 2+ Modem Router is an all-in-one modem, router, Wireless N access point, firewall and Fast Ethernet four-port switch that allows you to access the Internet and download music, play interactive games online or surf the Web at double the speed\* previously available through ADSL2.

The newest ADSL standard, ADSL2+ (G.992.5) offers significant advantages to the standard version of ADSL (asymmetric digital subscriber line) by boosting performance, improving interoperability and supporting new applications.

### Increased Performance and Wireless Coverage

The new Wireless N standard has dramatically increased the overall performance of a wireless network. With speeds up to 300 Mbps and a coverage distance up to 600 m, the new Wireless N technology greatly surpasses that of 802.11g.

### Better Rate and Reach

Improved modulation efficiency reduces framing overhead, achieves higher coding gain, improves the initialization time and provides enhanced signal processing algorithms. ADSL2 increases downstream data rates to more than 12 Mbps as compared to between 8 M and 10 Mbps for original ADSL. ADSL2 extends the reach by approximately 600 feet. The ADSL2+ standard doubles the maximum frequency used for downstream data transmission from 1.1 MHz to 2.2 MHz. What all this means to you is that the new ADSL2+ high-speed Internet router effectively provides downstream data rates of 24 Mbps on standard copper phone lines as long as 5,000 feet.\*

### Diagnostics

Real-time performance-monitoring capabilities provide information regarding line quality and noise conditions at both ends of the line. Service providers can use the data to monitor the quality of your ADSL connection, prevent service failures and keep your connection up and running without disruption. They can also use the data to determine if you qualify for higher-data-rate services.

### Improved Interoperability

Modem initialization procedures are clarified, which improves interoperability and provides better performance when connecting ADSL transceivers from different chip suppliers.

### Enhanced Voice Support

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An optional digital mode allows for transmission of data in the POTS (plain old telephone service) portion of the phone line. This adds 256 kbps to the upstream data rate, which can be an attractive option for businesses that have voice services on different phone lines and value the additional upstream bandwidth. In addition, ADSL2's channelization capability provides support for Channelized Voice over DSL (CVoDSL), a method of transporting derived lines of TDM voice traffic transparently over DSL.

\* ADSL performance may vary depending on operating environment and distance between networked devices.

## Features:

- Wireless N router with integrated ADSL2+ modem
- 2T2R MIMO technology for enhanced throughput and coverage
- Supports ADSL standards G.992.1 (G.dmt), G.992.2 (G.lite), G.992.3 (ADSL2), G.992.4 (splitterless ADSL2) and G.992.5 (ADSL2+) for Annex B
- Supports 24 Mbps ADSL2+ downstream data rate
- Supports Wi-Fi Protected Setup (WPS)
- Supports WEP and WPA/WPA2 (TKIP and AES) data encryption
- Integrated 10/100 Mbps LAN switch with Auto MDI/MDI-X support
- DHCP server assigns IP addresses for all LAN users
- DHCP Server supports static lease management
- Supports port forwarding and DMZ (demilitarized zone)
- Supports DDNS (dynamic DNS)
- Supports UPnP (Universal Plug and Play)
- Integrated SPI firewall
- QoS (Quality of Service) bandwidth management
- VPN Pass Through (PPTP, IPSec, L2TP)
- Supports SNMP management
- Use INTELLINET NETWORK SOLUTIONS Wireless N WLAN adapters and cards for best compatibility and performance
- Complies with 2.4 GHz IEEE 802.11n standard and is backward compatible with IEEE 802.11g/b standards
- Easy installation through Web-based user interface
- System status
- Security log
- Firmware upgradeable
- Three-Year Warranty

## Specifications:

### Standards

- IEEE 802.3 (10Base-T Ethernet)
- IEEE 802.3u (100Base-TX Fast Ethernet)
- IEEE 802.11b (11 Mbps Wireless LAN)
- IEEE 802.11g (54 Mbps Wireless LAN)
- IEEE 802.11n (300 Mbps Wireless LAN)
- ADSL2+ (ITU G.992.5) up to 24 Mbps
- ADSL2 (ITU G.992.4) splitterless ADSL, up to 12 Mbps

- ADSL2 (ITU G.992.3) up to 12 Mbps
- ADSL (ITU G.992.2/G.Lite) up to 1.5 Mbps
- ADSL (ITU G.992.1/G.DMT) up to 8 Mbps
- ANSI T1.413, Issue 2 (Asymmetric DSL)

#### General

- LAN ports: 4 RJ45 10/100 Mbps data ports
- LAN ports with Auto MDI/MDI-X
- WAN port: 1 x RJ11 (ADSL)
- Flash: 2 MB
- Memory: 16 MB SDRAM
- Throughput max.: 24 Mbps downstream, 1 Mbps upstream
- Certifications: FCC Class B, CE, RoHS

#### Router

- Chipset: Realtek RTL8671BH + RTL8271B
- Supported WAN connection types:
  - PPP over Ethernet (RFC 2516).
  - PPP over AAL5 (RFC 2364)
  - Multiple protocols over AAL5 (RFC 1483/2684)
- NAT:
  - Port forwarding
  - DMZ (demilitarized zone)
- Firewall:
  - Access control based on MAC address
  - URL filter
- Supports UPnP (Universal Plug and Play)
- Supports DHCP (client/server)
- Supports VPN PPTP, L2TP and IPsec passthrough

#### Wireless

- Chipset: Realtek RTL8192SU
- Wireless frequency range: 2.4 – 2.4835 GHz
- 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
  - Japan: 14 channels
- Data rates:
  - IEEE 802.11b (11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps)
  - IEEE 802.11g (54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps)
- Output power:

- OFDM: 15 dBm +/- 1.5 dBm (54 Mbps, 32 mW max.)
- OFDM: 13 dBm +/- 1.5 dBm (300 Mbps, 20 mW max.)
- CCK: 16 dBm +/- 1.5 dBm (11 Mbps, 40 mW max.)
- 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 with 3 dBi gain each
  - 2T2R MIMO mode (2 transmitter, 2 receiver)

#### LEDs

- Power
- WLAN
- WPS
- ADSL Link/Act
- LAN 1-4 Link/Act

#### Environmental

- Dimensions: 187 (W) x 100 (D) x 30 (H) mm (7.3 x 3.9 x 1.2 in.)
- Weight: 0.8 kg (1.7 lbs.)
- Operating temperature: 0 – 40°C (32 – 104°F)
- Operating humidity: 10 – 90% RH, non-condensing
- Storage temperature: 0 – 60°C (0 – 149°F)

#### Power

- External power adapter: 12 V DC, 1 A

#### Package Contents

- Wireless 300N ADSL 2+ Modem Router
- Quick installation guide
- Setup CD with user manual and setup wizard
- Power adapter
- Ethernet Cat5 RJ45 cable, 1.0 m (3 ft.)
- RJ11 telephone cable, 1.8 m (5.9 ft.)

