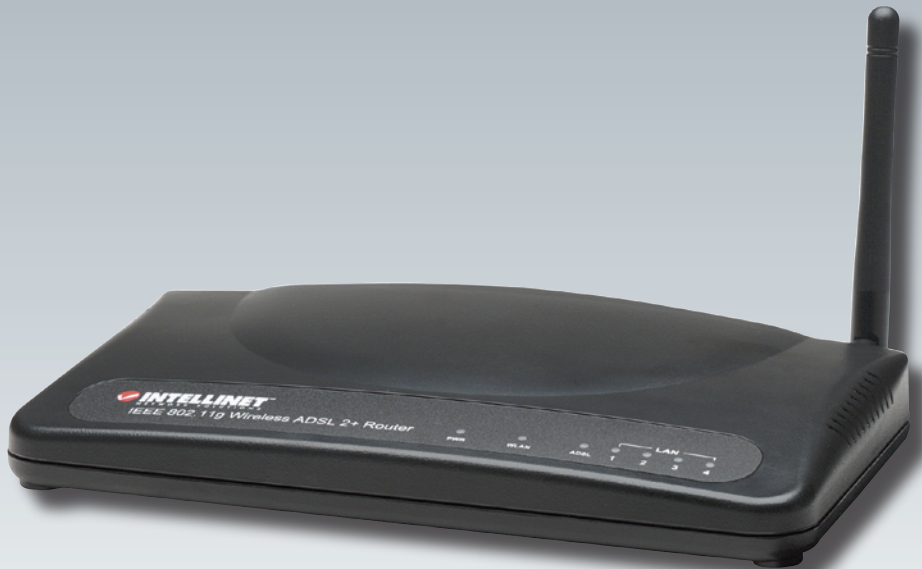




**INTELLINET**  
NETWORK SOLUTIONS

BRINGING NETWORKS TO LIFE



# Wireless ADSL2+ Broadband Modem Router

**For ADSL (Annex A), 54 Mbps Wireless 802.11g, with 4-Port 10/100 Mbps LAN Switch**

## Internet access that is faster than ever before!

**Model**  
523455

The INTELLINET NETWORK SOLUTIONS™ Wireless ADSL2+ Broadband Modem Router is an all-in-one modem, router, wireless access point, firewall and Fast Ethernet 4-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.

### 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 8 M to 10 Mbps for original ADSL, extending 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 for you is that the new Wireless ADSL2+ Broadband Modem 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.

### Fast Startup

A fast startup mode reduces initialization time from about 10 seconds to less than 3 seconds.

### Enhanced Voice Support

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 to transport derived lines of TDM voice traffic transparently over DSL.

### Lifetime Warranty

Strict manufacturing standards ensure the highest quality in all INTELLINET NETWORK SOLUTIONS products. All items carry a full Lifetime Warranty — the strongest quality commitment anyone can make.

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





**LIFETIME WARRANTY**

**Model  
523455**

## Features

- 802.11g router with integrated ADSL2+ modem
- Supports 24 Mbps ADSL2+ downstream data rate
- 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 A
- Up to 54 Mbps wireless network data transfer rate
- Compatible with all 802.11b & g wireless products
- Supports WEP and WPA (TKIP and AES) data encryption
- Supports MAC filtering for wireless clients
- Integrated 10/100 Mbps LAN switch with Auto MDI/MDI-X support
- DHCP server assigns IP addresses for all LAN users
- Supports virtual server, port forwarding and DMZ (demilitarized zone)
- Supports DDNS (dynamic DNS)
- Supports UPNP (Universal Plug and Play)
- Supports VPN pass-through (IPSec, PPTP, L2TP)
- Integrated anti-DOS firewall
- Content control through URL and domain filter
- Remote management function
- Supports SNMP management
- Easy installation through Web-based user interface
- Firmware updates via Web-based user interface
- Lifetime 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)
- 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 RJ-45 10/100 Mbps data ports
- LAN ports with Auto MDI/MDI-X
- Flash: 2 MB
- Memory: 8 MB SDRAM
- Throughput max.: 24 Mbps downstream, 1 Mbps upstream
- Certifications: FCC Class B, CE Mark, RoHS

### ROUTER

- Chipset: Trendchip
- Supported WAN connection types:
  - PPP over Ethernet (RFC 2516)
  - PPP over AAL5 (RFC 2364)
  - Multiple protocols over AAL5 (RFC 1483/2684)
- NAT:
  - Virtual server
  - Port forwarding
  - DMZ (demilitarized zone)
- Firewall:
  - Access control based on MAC address
  - Domain blocking
  - URL filter
- Supports UPNP (Universal Plug and Play)
- Supports DHCP (client/server)
- Supports VPN pass-through (IPSec, PPTP, L2TP)
- Certifications: FCC Class B, CE Mark, RoHS

### WIRELESS

- Chipset: Ralink 2561ST
- Wireless frequency range: 2.4 – 2.484 GHz
- Modulation technologies:
  - 802.11b: Direct Sequence Spread Spectrum (DSSS): DBPSK, DQPSK, CCK
  - 802.11g: 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 dBm (54 Mbps, 40 mW max.)
  - CCK: 18 dBm +/- 1 dBm (11 Mbps, 63 mW max.)
- Receiver sensitivity: -65 dBm (54 Mbps); -83 dBm (11 Mbps)
- Maximum coverage distance: 100 m / 300 ft. (indoor), 300 m / 900 ft. (outdoor)
- Wireless security:
  - WEP encryption (64/128 bit)
  - WPA-PSK
  - WPA2-PSK
  - Client access control through media access control (MAC) filter
- Antenna: single detachable dipole antenna with RP-SMA connector, 2 dBi gain

### LEDs

- Power
- 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: 1.0 kg (2.2 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 ADSL2+ Broadband Modem Router
- Quick start guide
- Setup CD with user manual and setup wizard
- Power adapter
- Ethernet Cat5 RJ-45 cable, 1.0 m (3 ft.)
- RJ-11 telephone cable, 1.8 m (5.9 ft.)

For more information on INTELLINET NETWORK SOLUTIONS products, consult your local dealer or visit [www.intellinet-network.com](http://www.intellinet-network.com).

  
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