Wireless N ADSL2+ 4-Port Modem Router

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

Internet access that is faster than ever before!

Model
524360

The INTELLINET NETWORK SOLUTIONS™ Wireless N ADSL2+ 4-Port 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 (Draft 802.11n) 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 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 this 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.
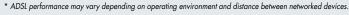
Fast Startup
A fast startup mode reduces initialization time from about 10 seconds to less than 3 seconds.

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

Internet

PC

PC

Wireless PC

Laptop

Model
524360

Features

- Wireless N router with integrated ADSL2+ modem
- Advanced 2T3R 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 A
- 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 virtual server and DMZ
- Supports DDNS (dynamic DNS)
- Supports UPNP (Universal Plug and Play)
- Integrated SPI firewall
- VPN Pass Through (PPTP, IPSec)
- Supports SNMP management
- Complies with 2.4 GHz Draft IEEE 802.11n standard and is backward compatible with IEEE 802.11g/b standards
- Easy install through Web-based user interface
- System Status
- Security Log
- Firmware upgradeable
- Use INTELLINET NETWORK SOLUTIONS Wireless N Draft 2.0 WLAN adapters and cards for best compatibility and performance
- 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) splitter-less 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 TC3162L2F + TC3085
- Supported WAN connection types:
  - PPP over Ethernet (RFC 2516)
  - PPP over AAL5 (RFC 2364)
  - Multiple protocols over AAL5 (RFC 1483/2684)
- NAT:
  - Virtual server
  - DMZ (demilitarized zone)
- Firewall:
  - Access control based on MAC address
  - URL filter

- Supports UPnP (Universal Plug and Play)
- Supports DHCP (client/server)
- Supports VPN pass-through (IPSec, PPTP)

WIRELESS
- Chipset: Ralink RT2880
- 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 dBm (54 Mbps, 40 mW max.)
  - OFDM: 15 dBm +/- 1 dBm (300 Mbps, 40 mW max.)
  - CCK: 17 dBm +/- 1 dBm (11 Mbps, 50 mW max.)
- Receiver sensitivity:
  - 11n (300 Mbps): 20 MHz: -71 dBm; 40 MHz: -68 dBm
  - 11g (54 Mbps): -74 dBm
  - 11b (11 Mbps): -87 dBm
- Max. coverage distance: 100 m / 328 ft. (indoor), 600 m / 1,968 ft. (outdoor)

- Wireless security:
  - WEP encryption (64/128 bit)
  - WPA TKIP
  - WPA2 AES
  - WPA2 mixed
  - WPA RADIUS
  - Client access control through media access control (MAC) filter
- Antenna:
  - 3 detachable dipole antennas with 3 dBi gain each
  - 2T3R MIMO mode (2 transmitter, 3 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: 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 N ADSL2+ 4-Port Modem Router
- Quick installation guide
- Setup CD with user manual and setup wizard
- Power adapter
- Ethernet Cat5 RJ45 cable, 1 m (3 ft.)
- RJ11 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**.

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