



ENDSL-4R5G

Wireless Router / High Speed ADSL 2+ Modem

The ENDSL-4R5G Wireless Router / High Speed ADSL 2+ Modem is a highly integrated wireless Internet gateway device. And, it is fully compliant with ADSL/2/2+, IEEE 802.3/3u and IEEE 802.11b/g specifications.

It supports you with one ADSL/2/2+ modem router for high speed ADSL/2/2+ connection to the DSL telephone line with downstream/upstream data rates up to 24Mbps and 1Mbps for Internet access, four 10/100Mbps Fast Ethernet ports and one IEEE 802.11g/b 54Mbps wireless Access Point for connections to PC hosts or other Fast Ethernet or wireless network devices. It is specially designed for all your possible network connectivity. And, you can share and enjoy higher quality multimedia and real-time applications such as online gaming, Video-on-Demand and other bandwidth consuming services. Also the feature-rich routing and NAT functions are seamlessly integrated to this device for corporation or SOHO users.

The ENDSL-4R5G is the most cost-efficient highly integrated wireless Internet gateway device you would ever need for all your LAN, wireless and Internet connectivity.

FEATURES

- Compliant to the most updated ADSL2/2+ standards
- Support ADSL2+ downstream/upstream data rate up to 24M/1Mbps
- IEEE 802.11g WLAN supports up to 54Mbps transmission rate
- Support WEP, WPA, WPA2 and 802.1X based Encryption
- Hardware Reset button for fast default setting recovery
- WLAN/WPS button to enable/disable WLAN or WPS functionalities
- Built-in Quick Setup Wizard to easily establish ADSL connection
- Web-based Management, Configuration and Firmware Upgrade
- Embedded Firewall (SPI) feature for secure data communication
- Support UPnP specification
- Support Triple Play (Video, Voice & Data) application
- Support Diff-serv approach Quality of Service
- Support Traffic Prioritization and Bandwidth Management
- Interoperable with all major DSLAMs
- Ideal for SOHO and Home Users

APPLICATIONS

- High speed DSL broadband and Internet access sharing
- Audio and Video streaming and transferring
- PC files and applications sharing
- Network and on-line gaming

SPECIFICATIONS

ADSL

- Support ANSI T1.413 Issue2
- Support ITU G.992.1 (G.dmt) Annex A
- Support ITU G.992.2 (G.lite) Annex A
- Support ITU G.992.3 ADSL2 (G.dmt.bis) Annex A, L, M
- Support ITU G.992.4 ADSL2 (G.lite.bis)
- Support ITU G.992.5 ADSL2 plus

IEEE 802.3/802.3u ETHERNET/FAST ETHERNET

- Compliant with IEEE 802.3/802.3u standards
- Support auto-negotiation function

- Support IEEE802.3x flow control for full duplex and back pressure flow control for half duplex
- Support MDI/MDI-X auto cross over

IEEE 802.11b/g WIRELESS

- IEEE 802.11b/g standards compliant
- Frequency Band: 2.4 GHz (ISM frequency bands)
- Data Rate:
 - 802.11b compliant: 11, 5.5, 2, 1 Mbps (DSSS/CCK);
 - 802.11g compliant: 54, 48, 36, 24, 18, 12, 9, 6 Mbps (OFDM)
- Operating Channels: 802.11b/g
 - 11: (Ch. 1-11) – N. America (default)
 - 13: (Ch. 1-13) – Europe ETSI
 - 14: (Ch. 1-14) – Japan
- Frequency Range: 802.11 b/g
 - 2.412~2.462 GHz – N. America (default)
 - 2.412~2.472 GHz – Europe ETSI
 - 2.412~2.484 GHz – Japan
- Transmit Output Power:
 - 802.11b: 18.5 dBm ± 1.5 dBm
 - 802.11g: 14.5 dBm ±1 .5 dBm
- Transmission Distance: 300 meters outdoors, 100 meters indoors coverage area (varying depending on the actual environment.)
- Security: 64/128-bit WEP, AES, TKIP, WPA, WPA2, 802.1x
- Antenna Type: single external detachable antenna
- Support WPS features

ATM

- Support hardware ATM AAL0, AAL5 and OAM
- Support software ATM AAL1 and AAL3/4
- Support ATM UBR, CBR, VBR-rt and VBR-nrt Traffic Shaping QoS
- Support up to 8 PVC settings with multiple sessions
- Support Auto PVC feature

HARDWARE

- RTL8671BH ADSL2+ Home Gateway Chipset
- 16 MB SDRAM
- 4 MB Serial Flash ROM

BRIDGING/ROUTING

- RFC 2364 PPPoA
- RFC 2516 PPPoE

- RFC2225/RFC1577 IPoA
- RFC 2684/1483 Bridged/Routed/MER
- Support Transparent Bridging (IEEE 802.1D)
- Dynamic and Static Routing (RIP v1/v2)
- DHCP Server, Relay and Client
- NAT/NAPT with extensive ALG support
- Support DNS Proxy
- Support DDNS feature
- Support IGMP Proxy
- Support SNTP
- Support Port Forwarding (Virtual Server) features
- Support DMZ functionality
- Support VPN Pass-Through

MANAGEMENT

- Support Web-based Configuration/Management
- Support Firmware upgrade via HTTP/TFTP
- Support built-in diagnostic function of circuitry connect
- Support Telnet CLI command line
- Support hardware reset or web interface reset function
- Support configuration files backup and restoration
- Support system log, connection status and statistics
- Support SNMP v1/v2C (RFC1213 MIB II, RFC 2662 ADSL line MIB, RFC 2515 ATM MIB)
- Support SNTP enactment
- Support TR069

SECURITY

- Support firewall function
- Support revised passwords of two-level users
- Support electronic signature (preventing different types of versions from upgrading each other)
- Support denial of service (DoS) which detects and protects against a number of attacks (such as SYN/FIN/RST Flood, Smurf, WinNuke, Echo Scan, Xmas Tree Scan)
- Packet filter based on IP address and port
- Access control based on MAC address
- PAP and CHAP authentication

PHYSICAL

- Dimension: 165mm (L) X 115mm (W) X 32 mm (H)

- Weight : 292 grams

HARDWARE INTERFACE

- One 2.4GHz antenna connector
- One RJ-11 ADSL port
- Four RJ-45 LAN ports
- One DC power jack for 12V DC/800mA power adapter
- One Reset button for factory default setting recovery
- One WLAN/WPS button to enable/disable WLAN or WPS functionalities
- One push Power button
- Status LED indicators

ENVIRONMENTAL

- Temperature:
 - Operating: +0 ~ +40 °C
 - Storage: -20 ~ +70 °C
- Humidity: (non-condensing)
 - Operating: 10% ~ 90% RH
 - Storage: 5% ~ 90% RH

APPROVALS

- FCC Part 15 Class B
- CE, EN60950 (LVD) and K.21
- UL
- RoHS

SYSTEM REQUIREMENTS

- ADSL Internet Service
- OS: Windows® 7 / Vista / XP / 2000 / ME / 98SE, Linux® and MAC®
- Browser: Internet Explorer® or above or equivalent
- Network Adapter: 10/100 Ethernet adapter or wireless 802.11b/g adapter
- CD-ROM drive

PACKAGE CONTENTS

- One ENDSL-4R5G device
- One DC power adapter
- One Splitter (optional)
- One QIG (Quick Installation Guide)
- One CD-ROM

- One RJ-11 cable
- One RJ-45 cable

* Specifications are subject to change without notice.